## UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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# **FORM 10-K**

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the fiscal year ended December 31, 2022

**I** TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from to

Commission file number 001-38791

or

# LUMINAR TECHNOLOGIES, INC.

(Exact name of registrant as specified in its charter)

	·	0 1		/	
Delaware					83-1804317
(State or other jurisdiction of incorp	poration or organization)				(I.R.S. Employer Identification No.)
2603 Discovery Drive	Suite 100	Orlando	Florida		32826
(Address of Principal Executive Offices)					(Zip Code)

(407) 900-5259

Registrant's telephone number, including area code

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading symbol(s)	Name of each exchange on which registered	
Class A common stock, par value of \$0.0001 per share	LAZR	The Nasdaq Stock Market LLC	

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes 🛛 No 🗵

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes 🛛 No 🗵

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports); and (2) has been subject to such filing requirements for the past 90 days. Yes  $\boxtimes$  No  $\square$ 

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes 🗵 No 🛛

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	D	Accelerated filer	0
Non-accelerated filer	Ο	Smaller reporting company	0
		Emerging growth company	0

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes 🛽 No 🗵

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements.

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to § 240.10D-1(b).

The aggregate market value of the voting stock held by non-affiliates of the registrant was approximately \$1.5 billion as of June 30, 2022 (the last business day of the registrant's most recently completed second fiscal quarter) based upon the closing sale price on The Nasdaq Stock Market reported for such date. Shares of Common Stock held by each officer and director and by each person who may be deemed to be an affiliate have been excluded. This determination of affiliate status is not necessarily a conclusive determination for other purposes.

As of February 17, 2023, the registrant had 272,176,538 shares of Class A common stock, par value \$0.0001 per share and 97,088,670 shares of Class B common stock, par value \$0.0001 per share, outstanding.

#### DOCUMENTS INCORPORATED BY REFERENCE

Part III incorporates by reference certain information from the registrant's definitive proxy statement (the "Proxy Statement") relating to its 2023 Annual Meeting of Stockholders. The Proxy Statement will be filed with the U.S. Securities and Exchange Commission within 120 days after the end of the fiscal year to which this report relates.

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## CAUTIONARY NOTE REGARDING FORWARD LOOKING STATEMENTS

This Annual Report on Form 10-K (this "Form 10-K") includes forward-looking statements in addition to historical information. These forward-looking statements are included throughout this Form 10-K, including in the sections entitled "Business," "Risk Factors," "Management's Discussion and Analysis of Financial Condition and Results of Operations," and in other sections of this Form 10-K and include statements regarding product plans, future growth, sales estimates/Order Book numbers, market opportunities, strategic initiatives, industry positioning, customer acquisition and retention, revenue growth and anticipated impacts on our business of the ongoing COVID-19 pandemic and related public health measures. In some cases, you can identify these statements by forward-looking words such as "outlook," "believes," "expects," "future," "potential," "continues," "may," "will," "should," "could," "seeks," "approximately," "predicts," "intends," "plans," "estimates," "anticipates" or the negative version of these words or other comparable words or phrases, but the absence of these words does not mean that a statement is not forward-looking. These forward-looking statements, which are subject to risks, uncertainties and assumptions about us, may include projections of our future financial performance, our anticipated growth strategies and anticipated trends in our business.

These statements are only predictions based on our current expectations and projections about future events. There are important factors that could cause our actual results, level of activity, performance or achievements to differ materially from the results, level of activity, performance or achievements expressed or implied by the forward-looking statements, including, our history of losses and our expectation that we will continue to incur significant expenses, including substantial R&D costs, and continuing losses for the foreseeable future as well as our limited operating history which makes it difficult to evaluate our future prospects and the risks and challenges we may encounter; our strategic initiatives which may prove more costly than we currently anticipate and potential failure to increase our revenue to offset these initiatives; whether our lidar products are selected for inclusion in autonomous driving or ADAS systems by automotive OEMs or their suppliers, and whether we will be de-selected by any customers; the lengthy period of time from a major commercial win to implementation and the risks of cancellation or postponement of the contract or unsuccessful implementation; potential inaccuracies in our forward looking estimates of certain metrics, including Order Book, our future cost of goods sold (COGS) and bill of materials (BOM) and total addressable market; the discontinuation, lack of success of our customers in developing and commercializing products using our solutions or loss of business with respect to a particular vehicle model or technology package and whether end automotive consumers will demand and be willing to pay for such features; our inability to reduce and control the cost of the inputs on which we rely, which could negatively impact the adoption of our products and our profitability; the effect of continued pricing pressures, competition from other lidar manufacturers, automotive original equipment manufacturers ("OEMs") cost reduction initiatives and the ability of automotive OEMs to re-source or cancel vehicle or technology programs which may result in lower than anticipated margins, or losses, which may adversely affect our business; general economic uncertainty and the effect of general economic conditions on our industry in particular, including the level of demand and financial performance of the autonomous vehicle industry and market adoption of lidar as well as developments in alternative technology and the increasingly competitive environment in which we operate, which includes established competitors and market participants that have substantially greater resources; our ability to achieve technological feasibility and commercialize our software products and the requirement to continue to develop new products and product innovations due to rapidly changing markets and government regulations of such technologies; our ability to manage our growth and expand our business operations effectively, including into international markets, such as China, which exposes us to operational, financial and regulatory risks; adverse impacts due to limited availability and quality of materials, supplies, and capital equipment, or dependency on third-party service providers and single-source suppliers; the project-based nature of our orders, which can cause our results of operations to fluctuate on a quarterly and annual basis; whether we will be able to successfully transition our engineering designs into high volume manufacturing, including our ability to transition to an outsourced manufacturing business model and whether we and our outsourcing partners and suppliers can successfully operate complex machinery; whether we can successfully select, execute or integrate our acquisitions; whether the complexity of our products results in undetected defects and reliability issues which could reduce market adoption of our new products, limit our ability to manufacture, damage our reputation and expose us to product liability, warranty and other claims; our ability to maintain and adequately manage our inventory; our ability to remediate the material weakness in our internal controls over financial reporting; our ability to protect and enforce our intellectual property rights; availability of qualified personnel, loss of highly skilled personnel and dependence on Austin Russell, our Founder, President and Chief Executive Officer; the impact of inflation and our stock price on our ability to hire and retain highly skilled personnel; the amount and timing of future sales and whether the average selling prices of our products could decrease rapidly over the life of the product as well as our dependence on a few key customers, who are often large corporations with substantial negotiating power; our ability to establish and maintain confidence in our long-term business prospects among customers and analysts and within our industry; whether we are subject to negative publicity; the effects of the ongoing coronavirus (COVID-19) pandemic or other infectious diseases, health epidemics, pandemics and natural disasters on Luminar's business; interruption or failure of our information technology and communications systems; cybersecurity risks to our operational systems, security systems, infrastructure, integrated software in our lidar solutions; market instability

exacerbated by geopolitical conflicts, including Russia and China and including the effect of sanctions and trade restrictions that may affect supply chain or sales opportunities; and those other factors discussed in the section entitled "Risk Factors" in this Form 10-K. You should specifically consider the numerous risks outlined in the section of this Form 10-K entitled "Risk Factors." Given these risks, uncertainties and other factors, you should not place undue reliance on these forward-looking statements. Although we believe the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, level of activity, performance or achievements. We undertake no obligation to update any forward-looking statements made in this Form 10-K to reflect events or circumstances after the date of this Form 10-K or to reflect new information or the occurrence of unanticipated events, except as required by law.

In addition, statements that "we believe" and similar statements reflect our beliefs and opinions on the relevant subject. These statements are based upon information available to us as of the date of this Annual Report on Form 10-K, and while we believe such information forms a reasonable basis for such statements, such information may be limited or incomplete, and our statements should not be read to indicate that we have conducted an exhaustive inquiry into, or review of, all potentially available relevant information. These statements are inherently uncertain, and investors are cautioned not to unduly rely upon these statements.

## PART I

### ITEM 1. BUSINESS.

### Overview

Luminar is a global automotive technology company ushering in a new era of vehicle safety and autonomy. Over the past decade, Luminar has been building from the chip-level up, our light detection and ranging sensor, or lidar, which is expected to meet the demanding performance, safety, reliability and cost requirements to enable next generation safety and autonomous capabilities for passenger and commercial vehicles as well as other adjacent markets.

The global mobility and e-mobility sector is increasingly focused on safety and autonomy, specifically next generation advanced driver assistance systems, or ADAS, and highway autonomy for passenger and commercial vehicles. Our products provide increased situational awareness in a broad range of driving environments through improved and higher confidence detection and planning at all vehicle speeds. Our portfolio encompasses sensor hardware and in-development perception and decision-making software as well as a high definition "3D" mapping engine that improve existing vehicle safety features and enable new levels of vehicle automation for passenger, commercial and other applications.

#### **Our Markets**

The Society of Automotive Engineers ("SAE") defines levels of automation as follows, which SAE updates from time to time:

- Level 0—No Driving Automation: In this level, the human is fully responsible for all dynamic driving tasks ("DDT") at all times, even if an active safety system assists in the task. "L0" is defined as driver support features that are limited to warnings or momentary emergency intervention. Examples of warnings include blind spot warning or lane departure warnings. Examples of features with momentary assistance include automated emergency braking ("AEB") and lane keep assist ("LKA").
- Level 1—Driver Assistance: In this level, while the human is fully responsible for all DDT at all times, an active safety system may assist by executing either the
  longitudinal or the lateral vehicle motion control subtask, and disengages immediately upon driver request. Examples include lane centering support ("LCS") or the more
  widely adopted adaptive cruise control ("ACC"). These features are viewed as comfort features, easing the driving load from the driver during extended highway drives.
- Level 2—Partial Driving Automation: In this level, the human is fully responsible for all DDT at all times, even if an active safety system assists in the task.

The term L2+ is often used for today's higher capability systems, many of which add a driver monitoring system, such as camera or steering wheel sensing to ensure the human driver remains engaged, but require the driver remain attentive at all times.

- Level 3—Conditional Driving Automation: In this level, the automated driving system ("ADS") performs the entire DDT while engaged. The driver is responsible to verify the operational readiness of the ADS, determine whether to engage the system, and becomes the fallback-ready user when the ADS is engaged. The ADS permits engagement and operation only within its operational design domains ("ODD").
- Level 4—High Driving Automation: In this level, the ADS performs the entire DDT while engaged. The driver is responsible to verify the operational readiness of the ADS, determine whether to engage the system, and becomes a passenger when the ADS is engaged (when physically present in the vehicle). The ADS permits engagement and operation only within its ODD.
- Level 5—Full Driving Automation: In this level, the ADS performs the entire DDT while engaged. It is the designation for vehicles that when placed in automated driving mode, can drive everywhere and in all conditions without human intervention or even occupants.

We believe the market is currently segmented in two distinct categories: (1) ADAS (L0 / L1 / L2) and (2) autonomous driving (L3 / L4 / L5). Within these two segments, we believe the largest near-term business opportunities exist for technologies that enhance, not replace, the driver in ADAS and highway autonomy applications (L3). We believe our products meaningfully improve ADAS functionality and are also key enablers for highway autonomy.

### ADAS and Proactive Safety<sup>TM</sup>

ADAS standards are primarily driven by both the European and North American markets. The European New Car Assessment Program ("NCAP"), a voluntary vehicle safety performance assessment program which uses a 5-star safety rating system, requires a minimum level of crash mitigation functionality such as automated emergency braking ("AEB") (for vehicles, pedestrians, and cyclists), lane keep assist ("LKA"), speed alert systems and other ADAS features for a vehicle to have a 5-star rating. Furthermore, we believe the European Union may be moving toward mandates of these advanced functions.

The U.S. is less focused on mandates at this time and instead allows the U.S. New Car Assessment Program (known as the "Stars on Cars" program) and designations such as the Insurance Institute for Highway Safety "Top Safety Pick" and "Top Safety Pick+" to drive adoption and provide consumers with an understanding of the vehicle's advanced crash avoidance capability. Through 2022, working with the National Highway Traffic Safety Administration ("NHTSA"), 20 automakers have made progress towards equipping most new passenger vehicles with a low-speed AEB system that includes forward-collision warning.

With global safety rating programs and the OEMs competing to deliver more safety and comfort features to their customers, it is reasonable to expect near complete adoption of ADAS functionalities in new vehicles produced by Europe, U.S., Japan, and South Korea by 2026. We expect adoption rates to increase significantly in China as well.

According to NHTSA, the number of automotive fatalities globally still exceeds one million annually and the social costs of accidents continue to exceed \$500 billion in the United States alone. While the increased application of existing ADAS technology should help reduce the number of accidents and fatalities, we believe there is significant room for improvement in these technologies. In particular, we believe there is a significant opportunity to reduce collisions with a capable lidar sensing system that increases the quality and reliability of the perception data collected by vehicles and enables improved ADAS functionality in a wider range of environmental conditions and higher speeds. We have been developing a turn-key ADAS system known as Proactive Safety<sup>TM</sup> that leverages our core sensor and software technologies. Intended functionality for Proactive Safety<sup>TM</sup> currently under development includes Automatic Emergency Braking, Automatic Emergency Steering, and Adaptive Cruise Control, which are expected to represent a new generation of vehicle safety, meant to enable accident avoidance instead of merely mitigating crash severity.

#### Highway Autonomy

Our focus since inception has been to enable ubiquitous safety and autonomy and we view highway autonomy, in combination with Proactive Safet $\mathbb{J}^{M}$ , as providing the most value to the end consumer for the foreseeable future. The market appears to be trending in this direction, targeting hands-off and eyes-off operations in a more controlled setting than the urban environment. While there has historically been a significant focus on investment and development of robo-taxi solutions, we believe the passenger vehicles and commercial vehicle sectors will be the greatest source of demand for our products over the next several years.

### Passenger Vehicle Market

The passenger vehicle market is very large. We expect that approximately 100 million new passenger and commercial vehicles will be manufactured annually, on average, this decade. In order to realize a vehicle feature's maximum societal benefits, the ultimate goal in the automotive industry is to achieve widespread adoption of next-gen safety and highway autonomous features in all vehicles. We expect a technology adoption ramp-up over time as automated functionality matures, costs and pricing are reduced, and consumers become more familiar with the full benefits and capabilities of a safe autonomy system. We believe there is a substantial market opportunity for our products once development of Proactive Safety<sup>TM</sup> is complete and coupled with autonomy due to the public benefit of the overall anticipated safety increase.

### Commercial Trucking Market

The amount of goods transported by trucking globally continues to rise year-over-year. The application of ADAS technology continues to grow and the interest in autonomy for commercial transport is at an all-time high. The business case for trucking highway autonomy includes: lower operating costs, increased utilization of the vehicles and more time spent on the road.

### Robo-Taxi Market

The robo-taxi industry continues to develop through investment and partnerships by leading technology companies and mainstays from the automotive industry. Although the timeline for widespread deployment of robo taxies continues to be pushed out due to the complexity of the technical requirements, as well as the need for regional and federal governmental support, funding for infrastructure, and a sensing and compute solution that must anticipate every possible mixed-traffic scenario, the robo-taxi market remains an important market for lidar both for near-term validation and for long-term demand.

#### Adjacent Markets

Adjacent markets such as last mile delivery, aerospace and defense, robotics and security offer use cases for which our technology is well suited. Our goal is to scale our core markets and utilize our robust solutions to best serve these adjacent markets where it makes sense for us and our partners.

#### **Our Products**

Our Iris and other products are described in further detail below:

## Hardware

*Iris:* Iris lidar combines laser transmitter and receiver and provides long-range, 1550 nm sensory meeting OEM specs for advanced safety and autonomy. This technology provides efficient automotive-grade, and affordable solutions that are scalable, reliable, and optional for series production. Iris lidar sensors are dynamically configurable dual-axis scan sensors that detect objects up to 600 meters away over a horizontal field of view of 120° and a software configurable vertical field of view of up to 30°, providing high point densities in excess of 200 points per square degree enable long-range detection, tracking, and classification over the whole field of view. Iris is refined to meet the size, weight, cost, power, and reliability requirements of automotive qualified series production sensors. Iris features our vertically integrated receiver, detector, and laser solutions developed by our Advanced Technologies & Services segment companies - Freedom Photonics, Black Forest Engineering, and Optogration. The internal development of these key technologies gives us a significant advantage in the development of our product roadmap.

#### Software

Software presently under development includes the following:

*Core Sensor Software:* Our lidar sensors are configurable and capture valuable information extracted from the raw point-cloud to promote the development and performance of perception software. Our core sensor software features are being designed to help our commercial partners to operate and integrate our lidar sensors and control, and enrich the sensor data stream before perception processing.

**Perception Software:** Our perception software is in design to transform lidar point-cloud data into actionable information about the environment surrounding the vehicle. This information includes classifying static objects such as lane markings, road surface, curbs, signs and buildings as well as other vehicles, pedestrians, cyclists and animals. Through internal development as well as the recent acquisition of certain assets of Solfice (aka Civil Maps), we expect to be able to utilize our point-cloud data to achieve precise vehicle localization and to create and provide continuous updates to a high definition map of a vehicle's environment.

Sentinel: Sentinel is our full-stack software platform for safety and autonomy that will enable Proactive Safety<sup>TM</sup> and highway autonomy for cars and commercial trucks.

Our software products are in designing and coding phase of the development and had not yet achieved technological feasibility as at end of 2022.

#### Competition

The market for lidar-enabled vehicle features, on and off road, is an emerging one with many potential applications in the development stage. As a result, we face competition for lidar hardware business from a range of companies seeking to have their products incorporated into these applications. We believe we hold a strong position based on both hardware product performance and maturity, and our growing ability to develop deeply integrated software capabilities needed to provide autonomous and safety solutions to our customers.

Within the automotive autonomy software space, the competitive landscape is still nascent and primarily focused on developing robo-taxi technologies as opposed to autonomous software solutions for passenger vehicles. Other autonomous software providers include: in-house OEM software teams; automotive silicon providers; large technology companies and newer technology companies focused on autonomous software. We partner with several of these autonomous software providers to provide our lidar and other products.

Beyond automotive, the adjacent markets, including delivery bots and mapping, among others, are highly competitive. There are entrenched incumbents and competitors, including from China, particularly around ultra-low cost products that are widely available.



#### **Intellectual Property**

Our success and competitive advantage depend in part upon our ability to develop and protect our core technology and intellectual property. We own a portfolio of intellectual property, including patents and registered trademarks, confidential technical information, and expertise in the development of lidar technology and software for autonomous vehicles.

We have filed patent and trademark applications in order to further secure these rights and strengthen our ability to defend against third parties who may infringe on our rights. Additionally, we protect our proprietary rights through agreements with our commercial partners, supply-chain vendors, employees, and consultants, as well as close monitoring of the developments and products in the industry.

As of January 2023, we had 135 issued patents (130 U.S. and 5 international), 125 pending applications (61 U.S. and 64 international), of which one U.S. application has been allowed. In addition, we have three registered U.S. trademarks, 22 registered foreign trademarks and 70 pending trademark applications.

#### **Manufacturing Process**

We build and design certain critical components in-house, including our receiver ASIC and InGaAs photodiode. We have an internal advanced manufacturing line located in Orlando, Florida, where we develop the manufacturing and testing processes, including capturing any related intellectual property necessary to develop our products. Our manufacturing processes and knowledge are a key differentiator for us in the market.

Extended component lead times and bottlenecks in the supply chain have created supply challenges for the entire market in the past and may continue through 2023 or beyond.

In May 2021, we announced our series manufacturing partnerships with Celestica and Fabrinet. We are in process of installing our high-volume series production facility in Mexico, which will be operated by Celestica. We expect to start production at the high-volume facility in the second half of 2023. In the meantime, we are currently producing our Iris sensors at an existing facility owned and operated by Celestica.

#### **Research and Development**

Our research and development activities occur in various locations in the United States, Germany and India.

Our research and development team is responsible for creating new technologies and expanding lidar and perception and mapping software functionality. The team is responsible for ensuring our lidar is designed for manufacturability and testability. The team partners with our operations and supply chain functions to develop scalable commercial and reliable manufacturing processes and direct production material procurement.

#### Sales and Marketing

We use customer feedback to specifically tailor our product and approach to build and expand our relationships with potential commercial partners. In parallel, marketing and communications drive our brand equity and narrative through ongoing announcements, campaigns, events, speaking opportunities, and public relations efforts.

The automotive value chain characteristically involves research and feasibility studies, followed by long-term product development cycles, including testing and qualification with the automakers which can last for several years. In general, automaker agreements do not guarantee potential volumes, which vehicle models will incorporate supplier components, or timing of purchases to their suppliers during this product development cycle. Instead, typically, after initial research and feasibility agreements and extensive competitive negotiations, automakers enter into development agreements that establish collaborations or partnerships to develop and integrate technology into the automaker's vehicles or platforms intended for series production, frequently accompanied by non-recurring engineering ("NRE") projects. While these collaboration or partnership agreements provide automakers the right to terminate the relationship without purchasing any production volume, factors such as difficulty of integrating complex technologies, sunken costs relating to NRE projects, impact on product roadmap, time to market, and risk of being unable to secure future supply may deter automakers to cancel collaboration or development agreements. Automakers typically only enter into blanket purchase orders or other definitive supply agreements with binding commitments several months before production is expected to begin. We identify major commercial wins only when we have entered into a collaboration, development, partnership or other similar agreement and have reason to believe that such engagement is expected to result in future series production. Given the customary business practices in the automotive industry, there remains potential risk that our major commercial wins may not ultimately generate any significant revenue (See Item 1A, Risk Factors for definition of major commercial win and further discussion of risk).



### **Government Regulation**

Automotive safety regulation in the area of autonomy is split between two categories: (1) SAE Level 0-2 (including active safety, driver assist, and conditional autonomy); and (2) SAE Level 3-5 (partial through full autonomy) (commonly referred to as "higher autonomy"). In general, throughout the world, there is a positive legal environment that encourages consumer sale and use of SAE Level 0-2 functionality. The legal environment for SAE Level 3-5 functionality varies, generally encouraging the safe testing and development of higher autonomy functions, but restricting consumer use in personal vehicles and commercial use, as in automated trucking and taxis in many regions.

In the U.S., at both the federal and state level, nearly all SAE Level 0-2 functionality is permitted, while SAE Level 3-5 enjoys a positive environment for on-road testing and development, but mixed opportunities to deploy in consumer and commercial use. Federal regulation does not prohibit higher levels of autonomy today, but if National Highway Traffic Safety Administration deems an autonomy system unsafe, it would order a recall to remove vehicles from the road. Thus far, several U.S. states have expressly permitted SAE Level 4-5 levels of autonomy, while many remain silent, and others have laws that limit driverless operation. We believe regulations related to automotive autonomy technologies will continue to evolve to remove hurdles as state and federal regulators gain more experience with the technology.

In Europe, China, and the rest of the world, most automotive safety is regulated by a common system under the United Nations Economic Commission for Europe (UN/ECE). Under current UN/ECE standards, SAE Level 0-2 functionality may be deployed with certain restrictions such as road type and with driver monitoring, but higher SAE Level 3-5 functionality is limited to testing only. Safety regulators continue to work on standards for autonomy, but we expect this development process to be slower than in the U.S. However, China has increasingly departed from the common UN/ECE standards and is more likely to create its own regulation allowing higher levels of autonomy in the nearer term with a timeline more aligned with the U.S.

Given the intense work in these regulatory areas, there is a positive environment for deploying our lidar technology and Proactive Safety<sup>TM</sup> today in SAE Level 0-2 systems. While there is risk that SAE Level 3-5 systems may be delayed by regulation in some countries, we expect a workable path forward over the next several years as a more permissive regulatory and political environment develops.

### Employees

As of December 31, 2022, excluding contractors, we had almost 600 full-time employees primarily in the United States and Germany. None of our employees are represented by a labor union.

Our human capital resources objectives include, as applicable, identifying, recruiting, retaining, incentivizing and integrating our existing and new employees, advisors and consultants. The principal purposes of our equity and cash incentive plans are to attract, retain and reward personnel through the granting of stock-based and cash-based compensation awards, in order to increase stockholder value and the success of our company by motivating such individuals to perform to the best of their abilities and achieve our objectives.

### **Corporate Social Responsibilities and Sustainability**

We are committed to active and responsible corporate citizenship. Our Corporate Social Responsibility ("CSR") program is divided into seven elements (diversity and inclusion; human resources; finance/accounting; responsible sourcing; environmental, health and safety; trade compliance; and business ethics), each spearheaded by company leaders and subject matter experts in their respective areas. We expect ADAS and automated driving technologies to provide strong social benefits including reducing roadway injuries and fatalities, including in urban areas, making roadways more efficient by reducing commuting times and CO2 emissions, and offering improved productivity.

#### **Available Information**

Our Annual Report on Form 10-K reports, along with all other reports and amendments filed with or furnished to the SEC, are publicly available free of charge on the Investors section of our website at www.luminartech.com or at www.sec.gov as soon as reasonably practicable after these materials are filed with or furnished to the SEC. We also use our website as a tool to disclose important information about the company and comply with our disclosure obligations under Regulation Fair Disclosure. Our governance guidelines, code of conduct and Board committee charters are also posted on the Investors section of our website. The information on our website (or any webpages referenced in this Annual Report on Form 10-K) is not part of this or any other report we file with, or furnish to, the SEC.

## ITEM 1A. RISK FACTORS.

### **Risk Factor Summary**

Investing in our securities involves a high degree of risk. You should carefully consider all information in this Annual Report on Form 10-K, including our consolidated financial statements and related notes appearing elsewhere in this Form 10-K and Item 7. Management's Discussion and Analysis of Financial Condition and results of operations," before purchasing our securities. These risks are discussed more fully in the section titled "Risk Factors." These risks and uncertainties include, but are not limited to, the following:

- our history of losses and our expectation that we will continue to incur significant expenses, including substantial R&D costs, and continuing losses for the foreseeable future as well as our limited operating history which makes it difficult to evaluate our future prospects and the risks and challenges we may encounter;
- our strategic initiatives which may prove more costly than we currently anticipate and potential failure to increase our revenue to offset these initiatives;
- whether our lidar products are selected for inclusion in autonomous driving or ADAS systems by automotive OEMs or their suppliers, and whether we will be de-selected by any customers, and end customer adoption rates and demand for our products;
- the lengthy period of time from a major commercial win to implementation and the risks of cancellation or postponement of the contract or unsuccessful implementation;
- potential inaccuracies in our forward looking metrics and estimates, including our "Order Book," and our future cost of goods sold (COGS) and bill of materials (BOM) and total addressable market;
- the discontinuation, lack of success of our customers in developing and commercializing products using our solutions or loss of business with respect to a particular vehicle model or technology package and whether end automotive consumers will demand and be willing to pay for such features;
- our inability to reduce and control the cost of the inputs on which we rely, which could negatively impact the adoption of our products and our profitability;
- the effect of continued pricing pressures, competition from other lidar manufacturers, automotive original equipment manufacturers ("OEMs") cost reduction initiatives
  and the ability of automotive OEMs to re-source or cancel vehicle or technology programs which may result in lower than anticipated margins, or losses, which may
  adversely affect our business;
- general economic uncertainty and the effect of general economic conditions on our industry in particular, including the level of demand and financial performance of the
  autonomous vehicle industry and lidar industry;
- specific economic and market uncertainty regarding the autonomous vehicle industry and lidar industry as a result of competitor failures, mergers, and delays;
- market adoption of lidar as well as developments in alternative technology and the increasingly competitive environment in which we operate, which includes established
  competitors and market participants that have substantially greater resources;
- our ability to achieve technological feasibility and commercialize our software products and the requirement to continue to develop new products and product innovations
  due to rapidly changing markets and government regulations of such technologies;
- our ability to manage our growth and expand our business operations effectively, including into international markets, such as China, which exposes us to operational, financial and regulatory risks;
- our sales have been primarily to customers making purchases for R&D projects and project-based orders which may cause potentially significant fluctuations in our quarterly and annual results of operations;
- adverse impacts due to limited availability and quality of materials, supplies, and capital equipment, or dependency on third-party service providers and single source suppliers;
- whether we will be able to successfully transition our engineering designs into high volume manufacturing, including our ability to transition to an outsourced manufacturing business model and whether we and our outsourcing partners and suppliers can successfully operate complex machinery;
- our ability to establish and maintain confidence in our long-term business prospects among customers and analysts and within our industry and whether we are subject to negative publicity;
- whether we can successfully select, execute or integrate our acquisitions;
- whether the complexity of our products results in undetected defects and reliability issues which could reduce market adoption of our products, limit our ability to
  manufacture, damage our reputation and expose us to product liability, warranty and other claims;
- our ability to maintain and adequately manage our inventory;
- our ability to maintain an effective system of internal control over financial reporting;
- our ability to protect and enforce our intellectual property rights;
- · availability of qualified personnel, loss of highly skilled personnel and dependence on Austin Russell, our Founder, President and Chief Executive Officer;

- the impact of inflation and our stock price on our ability to hire and retain highly skilled personnel;
- the amount and timing of future sales and whether the average selling prices of our products could decrease rapidly over the life of the product as well as our dependence
  on a few key customers, who are often large corporations with substantial negotiating power;
- the effects of the ongoing coronavirus (COVID-19) pandemic or other infectious diseases, health epidemics, pandemics and natural disasters on Luminar's business;
- interruption or failure of our information technology and communications systems and cybersecurity risks to our operational systems, security systems, infrastructure, integrated software in our lidar solutions;
- strict government regulation that is subject to amendment, repeal or new interpretation and our ability to comply with modified or new laws and regulations applying to our business;
- market instability exacerbated by geopolitical conflicts, including Russia and China, and including the effect of sanctions and trade restrictions that may affect supply chain or sales opportunities;
- · whether the concentration of our stock ownership and voting power limits the ability of our stockholders to influence corporate matters; and
- risks related to our indebtedness.

### **Risk Factors**

### **Risks Related to Our Business and Industry**

#### We are an early stage company with a history of losses, and we expect to incur significant expenses and continuing losses for the foreseeable future.

We have incurred net losses on an annual basis since our inception. We incurred net losses of \$445.9 millior, \$238.0 million and \$362.3 million for the years ended December 31, 2022, 2021 and 2020, respectively. We believe that we will continue to incur operating and net losses each quarter until at least the time we begin commercial deliveries of our lidar-based products, which are not expected to begin until late 2023 and may occur later or not at all as we face challenges setting up outsourced manufacturing. Even if we successfully develop and sell our lidar and software solutions, there can be no assurance that they will be commercially successful. Our potential profitability is dependent upon the successful development and successful commercial introduction and acceptance of our lidar solutions, which may not occur.

We expect the rate at which we will incur losses to be remain high in future periods as we:

- expand our software development;
- continue to utilize our third-party partners for design, testing and commercialization;
- expand our production capabilities to produce our lidar solutions, including costs associated with outsourcing the production of our lidar solutions;
- expand our design, development, installation and servicing capabilities to address production of more products for more customers in more countries;
- build up inventories of parts and components for our lidar solutions;
- produce an inventory of our lidar solutions; and
- increase our sales and marketing activities and develop our distribution infrastructure.

Because we will incur the costs and expenses from these efforts before we receive incremental revenues with respect thereto, our losses in future periods will be significant. In addition, we may find that these efforts are more expensive than we currently anticipate or that these efforts may not result in revenues, which would further increase our losses.

#### Our limited operating history makes it difficult to evaluate our future prospects and the risks and challenges we may encounter.

We have been focused on developing lidar products for autonomous driving systems and driver assistance systems since 2012. This relatively limited operating history makes it difficult to evaluate our future prospects and the risks and challenges we may encounter. Risks and challenges we have faced or expect to face include our ability to:

- produce and deliver lidar and software products of acceptable performance, volume, cost, and quality;
- forecast our revenue and budget for and manage our expenses;
- attract new customers and retain existing customers in the automotive supply chain where sourcing and volume production targets are not guaranteed;
- comply with existing and new or modified laws and regulations applicable to our business;
- plan for and manage capital expenditures for our current and future products, and manage our supply chain and supplier relationships related to our current and future products;
- anticipate and respond to macroeconomic changes and changes in the markets in which we operate;
- maintain and enhance the value of our reputation and brand;
- effectively manage our growth and business operations, including the impacts of the COVID-19 pandemic on our business;
- develop and protect intellectual property;
- hire, integrate and retain talented people at all levels of its organization; and
- successfully develop new solutions to enhance the experience of customers and consumers.

If we fail to address the risks and difficulties that we face, including those associated with the challenges listed above as well as those described elsewhere in this "Risk Factors" section, our business, financial condition and results of operations



could be adversely affected. Further, because we have limited historical financial data and operate in a rapidly evolving market, any predictions about our future revenue and expenses may not be as accurate as they would be if we had a longer operating history or operated in a more predictable market. We have encountered in the past, and will encounter in the future, risks and uncertainties frequently experienced by growing companies with limited operating histories in rapidly changing industries. If our assumptions regarding these risks and uncertainties, which we use to plan and operate our business, are incorrect or change, or if we do not address these risks successfully, our results of operations could differ materially from our expectations and our business, financial condition and results of operations could be adversely affected.

# We continue to implement strategic initiatives designed to grow our business. These initiatives may prove more costly than we currently anticipate and we may not succeed in increasing our revenue in an amount sufficient to offset the costs of these initiatives and to achieve and maintain profitability.

We continue to make investments and implement initiatives designed to grow our business, including:

- investing in R&D;
- expanding our sales and marketing efforts to attract new customers;
- investing in new applications and markets for our products;
- investing in our manufacturing processes and partnerships to scale production;
- protecting our intellectual property; and
- · investing in legal, accounting, human resources, and other administrative functions necessary to support our operations as a public company.

These initiatives may prove more expensive than we currently anticipate, and we may not succeed in increasing our revenue, if at all, in an amount sufficient to offset these higher expenses and to achieve and maintain profitability. The market opportunities we are pursuing are at an early stage of development, and it may be many years before the end markets we expect to serve generate demand for our products at scale. Our revenue may be adversely affected for a number of reasons, including:

- the development and/or market acceptance of new technology that competes with our lidar products;
- if certain automotive OEMs or other market participants change their autonomous vehicle and driver assistance technologies;
- failure of our customers to commercialize autonomous systems that include our solutions;
- our ability to create, validate, and manufacture at high volume, and ship product to customers;
- our inability to effectively manage our inventory or manufacture products at scale, our inability to enter new markets or help our customers adapt our products for new applications; or
- our failure to attract new customers or expand orders from existing customers or increasing competition.

Furthermore, it is difficult to predict the size and growth rate of our target markets, customer demand for our products, commercialization timelines, developments in autonomous sensing and related technology, the entry of competitive products, or the success of existing competitive products and services. For these reasons, we do not expect to achieve profitability over the near term. If our revenue does not grow over the long term, our ability to achieve and maintain profitability may be adversely affected, and the value of our business may significantly decrease.

# If our lidar products are not selected for inclusion in autonomous driving systems or ADAS by automotive OEMs or their suppliers, our business will be materially and adversely affected.

Automotive OEMs and their suppliers design and develop autonomous driving and ADAS technology over several years. These automotive OEMs and suppliers undertake extensive testing or qualification processes prior to placing orders for large quantities of products such as our lidar products, because such products will function as part of a larger system or platform and must meet certain other specifications. We spend significant time and resources to have our products selected by automotive OEMs and their suppliers. We define the term "major win" or "major commercial win" to have occurred when (a) we have obtained a written agreement (e.g. non-binding expression of interest arrangement or an agreement for non-recurring engineering project) or public announcement with a major industry player, and (b) based on past experience in high volume production, leadership in autonomy, or market leadership of said major industry player, we expect to ultimately be awarded a significant commercial program, including OEM series production programs. If we do not achieve a major commercial win with respect to a particular vehicle model, we may not have an opportunity to supply our products to the automotive OEM for that vehicle model for a period of many years. In many cases, this period can be as long as seven or more years. If our products are not selected by an automotive OEM or its suppliers for one vehicle model or if our products are not successful in that

vehicle model, it is unlikely that our product will be deployed in other vehicle models of that OEM. If we fail to win a significant number of vehicle models from one or more of automotive OEMs or their suppliers, our business, results of operations and financial condition will be materially and adversely affected. For more information about certain risks related to product selection, see the Risk Factor captioned "*The period of time from a major commercial win to implementation is long and we are subject to risks of cancellation or postponement of the contract or unsuccessful implementation.*"

# The period of time from a major commercial win to implementation is long and we are subject to risks of cancellation or postponement of the contract or unsuccessful implementation.

Prospective customers, including those in the automotive industry, generally must make significant commitments of resources to test and validate our products and confirm that they can integrate with other technologies before including them in any particular system, product or model. While certain customers have executed a non-binding expression of interest arrangement or engaged us for non-recurring engineering projects while they are evaluating our products, none of our customers make contractual commitments to use our lidar sensors or software until all test and validation activities have been completed, they have finalized plans for integrating our systems, have a positive expectation of the market demand for our features, and unrelated to us, have determined that vehicle is ready for market and there is appropriate consumer demand. We expect that only after this point will our customers consider entering into definitive volume production agreements.

Through the end of 2022, none of our customers have completed their on-going testing and validation or have entered into definitive volume production agreements with us and there is no assurance or guarantee that any of our customers, including any for which we have announced a "major win" or "major commercial win" will ever complete such testing and validation or enter into a definitive volume production agreement with us or that we will receive any revenues forecasted in connection with such "major win" or "major commercial win".

The development cycles of our products with new customers varies widely depending on the application, market, customer and the complexity of the product. In the automotive market, for example, this development cycle can be as long as seven or more years. The development cycle in certain other markets can be several months to a few years. These development cycles result in us investing our resources prior to realizing any revenue from the commercialization or obtaining any firm commitments of pricing, volume or timing of purchases of our products by our customers. Further, we are subject to the risk that customers cancel or postpone implementation of our technology, as well as that we will not be able to integrate our technology successfully into a larger system with other sensing modalities. Additionally, our revenue could be materially less than forecasted estimates if the system, product or vehicle model that includes our lidar products is unsuccessful, including for reasons unrelated to our technology. Long development cycles and product cancellations or postponements may adversely affect our business, results of operations and financial condition. Thus, even if we have been successful in obtaining major commercial wins, long development cycles and product cancellations or postponements and failures to successfully integrate our technology may materially and adversely affect our business, results of operations and failures to successfully integrate our technology may materially and

### Our forward looking estimates of certain financial metrics may prove inaccurate.

We use various estimates in formulating our business plans. We base our estimates upon a number of assumptions that are inherently subject to significant business and economic uncertainties and contingencies, many of which are beyond our control. These estimates include our assessment of whether a "major win" or "major commercial win" has occurred. Our estimates therefore may prove inaccurate, causing the actual amount to differ from our estimates. The factors which may cause actual amounts to differ from our estimates include, without limitation:

- the extent to which customers who have selected Luminar for a major commercial win include our hardware and software products into their systems, products or vehicle models;
- the extent to which Luminar meets contractual terms and conditions;
- the extent to which our technology is successfully integrated into our customers' vehicles;
- the timing of when our customers adopt our technology into their vehicles on a commercial basis which could be delayed for regulatory, safety or reliability issues unrelated to our technology;
- undetected or unknown errors, defects or reliability issues in our hardware or software which could reduce the market adoption of our products or delay or stop
  production;
- loss of business with respect to, or the failure or lack of commercial success of, a vehicle model for which we are a significant supplier for reasons unrelated to our technology; For more information about certain risks related to discontinuation or loss of business, see the risk factor captioned "The discontinuation or lack of commercial success of, or loss of business with respect to, a particular vehicle model or technology package for which we are a significant supplier could reduce our sales and adversely affect our profitability;"

- a decline, for any reason, in the production levels of our customers, particularly with respect to models which incorporate our technology;
- customer cancellations of their contracts;
- the extent to which end customers select our products when purchasing a vehicle option package from vehicle manufacturers; and
- other risk factors set forth in this Annual Report.

Specifically, we use "Order Book" as a metric to measure performance against anticipated achievement of planned key milestones of our business. Order Book is defined as the forward-looking cumulative billings estimate of Luminar's hardware and software products over the lifetime of given vehicle production programs which Luminar's technology is expected to be integrated into or provided for, based primarily on projected / actual contractual pricing terms and our good faith estimates of "take rate" of Luminar's technology on vehicles. "Take rates" are the anticipated percentage of new vehicles to be equipped with Luminar's technology based on a combination of original equipment manufacturer ("OEM") product offering decisions and predicted end consumer purchasing decisions. We include programs in our Order Book when (a) we have obtained a written agreement (e.g., non-binding expression of interest arrangement or an agreement for non-recurring engineering project) or public announcement with a major industry player, and (b) we expect to ultimately be awarded a significant commercial program.

We believe Order Book provides useful information to investors as a supplemental performance metric as our products are currently in a pre-production stage and therefore there are currently no billings or revenues from commercial grade product sales. OEMs customarily place non-cancelable purchase orders with their automotive component suppliers only shortly before or during production. Consequently, we use Order Book to inform investors about the progress of expected adoption of our technologies by OEMs because there is, in our view, no other better metric available at our stage.

The Order Book estimate may be impacted by various factors as described in this Annual Report, including, but not limited to the following:

- None of our customers make contractual commitments to use our lidar sensors and software until all test and validation activities have been completed, they have
  finalized plans for integrating our systems, have a positive expectation of the market demand for our features, and unrelated to us, have determined that their vehicle
  is ready for market and there is appropriate consumer demand. Consequently, there is no assurance or guarantee that any of our customers, including any programs
  which we included in our Order Book estimates will ever complete such testing and validation or enter into a definitive volume production agreement with us or that
  we will receive any billings or revenues forecasted in connection with such programs.
- The development cycles of our products with new customers vary widely depending on the application, market, customer, and the complexity of the product. In the
  automotive market, for example, this development cycle can be as long as seven or more years. Variability in development cycles make it difficult to reliably estimate
  the pricing, volume or timing of purchases of our products by our customers.
- Customers cancel or postpone implementation of our technology.
- We may not be able to integrate our technology successfully into a larger system with other sensing modalities.
- The product or vehicle model that is expected to include our lidar products may be unsuccessful, including for reasons unrelated to our technology.

These risks and uncertainties may cause our future actual sales to be materially different than that implied by the Order Book metric.

# The discontinuation or lack of commercial success of, or loss of business with respect to, a particular vehicle model or technology package for which we are a significant supplier and the absence of demand from end automotive consumers for our features, could reduce our sales and adversely affect our profitability.

If we are able to secure major commercial wins and our solutions are included in these autonomous driving and ADAS products, we expect to enter into supply agreements with the relevant customer. Market practice dictates that these supply agreements typically require us to supply a customer's requirements for a particular vehicle model or autonomous driving or ADAS product, rather than supply a set number of products. These requirement contracts can have short terms and/or can be subject to renegotiation, sometimes as frequently as annually, all of which may affect product pricing, and may be terminated by our customers at any time. Moreover, end automotive consumers must demand and be willing to pay for our features. Therefore, even if we are successful in obtaining major commercial wins and the systems into which our products are built are commercialized, the discontinuation of, the loss of business with respect to, or a lack of commercial success of a particular vehicle model or technology package for which we are a significant supplier, and the absence of demand from end automotive

consumers for our features, could mean that the expected sales of our products will not materialize which would materially and adversely affect our business.

#### Information concerning our future cost of goods sold (COGS) and bill of materials (BOM) estimates may prove inaccurate.

We periodically provide estimates of future cost of goods sold and bill of materials, which by necessity, are projections based on anticipated rates of future production of our customers and the timing of related expenditures, and there are uncertainties inherent in the creation and interpretation of such data.

Pricing negotiated in our supply agreements for key components like the receiver, ASIC and laser are dependent on volume estimates which may not be realized. Most of our components are manufactured using technologies that are highly complex and consequently, estimates of BOM and cost of goods sold may fluctuate due to many variable factors and assumptions, including but not limited to the following:

- meeting certain volume estimates;
- our reliance on key inputs and our ability to reduce and control the cost of such inputs. For more information about certain risks related to our reliance on key inputs
  and our inability to reduce and control the costs of such inputs, see the risk factor captioned "We are reliant on key inputs and our ability to reduce and control the
  cost of such inputs could negatively impact the adoption of our products and our profitability;"
- the risk of shortages and long lead times in the supply of key components and the risk that our suppliers discontinue or modify components used in its products. For
  more information about certain risks related to reliance on third party suppliers, see the risk factor captioned "We rely on third-party suppliers and because some of
  the raw materials and key components in our products come from limited or single source suppliers, we are susceptible to supply shortages, long lead times for
  components, and supply changes, any of which could disrupt our supply chain and could delay deliveries of our products to customers;"
- consistency and adequate quality and quantity of piece parts, other raw materials and other bill of materials items;
- contract negotiations and the execution of firm supply agreements;
- future versions of our product design incorporating new components meeting our customers' requirements and specifications. For more information about certain
  risks related to product selection, see the risk factor captioned "The period of time from a major commercial win to implementation is long and we are subject to risks
  of cancellation or postponement of the contract or unsuccessful implementation;"
- the qualification of new versions of our key components. For more information about certain risks related to qualification, see the risk factor captioned *If our lidar* products are not selected for inclusion in autonomous driving systems or ADAS by automotive OEMs or their suppliers, our business will be materially and adversely affected;"
- defects in production processes (including system assembly) either within our facilities or at our suppliers;
- · any transitions or changes in our production process, planned or unplanned; and
- other risk factors set forth in this Annual Report.

#### We are reliant on key inputs and our inability to reduce and control the cost of such inputs could negatively impact the adoption of our products and our profitability.

The production of our sensors is dependent on producing or sourcing certain key components and raw materials at acceptable price levels. If we are unable to adequately reduce and control the costs of such key components, we will be unable to realize manufacturing costs targets, which could reduce the market adoption of our products, damage our reputation with current or prospective customers, and harm our brand, business, prospects, financial condition and operating results.

# Continued pricing pressures, automotive OEM cost reduction initiatives and the ability of automotive OEMs to re-source or cancel vehicle or technology programs may result in lower than anticipated margins, or losses, which may adversely affect our business.

Cost-cutting initiatives adopted by our customers often result in increased downward pressure on pricing. We expect that our agreements with automotive OEMs may require step-downs in pricing over the term of the agreement or, if commercialized, over the period of production. In addition, our automotive OEM customers often reserve the right to terminate their supply contracts for convenience, which enhances their ability to obtain price reductions. Automotive OEMs also possess significant leverage over their suppliers, including us, because the automotive component supply industry is highly competitive, serves a limited number of customers and has a high fixed cost base. Accordingly, we expect to be subject to substantial continuing pressure from automotive OEMs and Tier 1 suppliers to reduce the price of our products. It is possible that pricing pressures beyond our expectations could intensify as automotive OEMs pursue restructuring, consolidation and cost-cutting initiatives. If we are unable to generate sufficient production cost savings in the future to offset price reductions, our gross margin and profitability would be adversely affected.

# We expect to incur substantial R&D costs and devote significant resources to identifying and commercializing new products, which could significantly reduce our profitability and may never result in revenue to us.

Our future growth depends on penetrating new markets, adapting existing products to new applications and customer requirements, and introducing new products that achieve market acceptance. We plan to incur substantial, and potentially increasing, R&D costs as part of our efforts to design, develop, manufacture and commercialize new products and enhance existing products. Our R&D expenses were \$185.3 million, \$88.9 million and \$38.7 million for the years ended December 31, 2022, 2021 and 2020, respectively, and are likely to grow in the future. Because we account for R&D as an operating expense, these expenditures will adversely affect our results of operations in the future. Further, our R&D program, including our software development efforts, may not produce successful results, and our new products may not achieve market acceptance, create additional revenue or become profitable.

# Market adoption of lidar is uncertain. Developments in alternative technology may adversely affect the demand for our lidar technology. If market adoption of lidar does not continue to develop, or develops more slowly than we expect, or our investments in educating our customers about the advantages of lidar fail, our business will be adversely affected.

While our lidar-based ADAS and autonomous driving solutions can be applied to different use cases across end markets, nearly all of our revenue is generated from automotive applications. Despite the fact that the automotive industry has engaged in considerable effort to research and test lidar products for ADAS and autonomous driving applications, the automotive industry may not introduce lidar products in commercially available vehicles. We continually study emerging and competing sensing technologies and methodologies and we may add new sensing technologies. However, lidar products remain relatively new and it is possible that other sensing modalities, or a new disruptive modality based on new or existing technology, including a combination of technology, will achieve acceptance or leadership in the ADAS and autonomous driving industries. For example, significant developments in alternative technologies, such as cameras and radar, may materially and adversely affect our business in ways we do not currently anticipate. Existing and other camera and radar technologies may emerge as customers' preferred alternative to our solutions. Any failure by us and our R&D efforts to develop new or enhanced technologies or processes, or to react to changes in existing technologies, could materially delay our development and introduction of new and enhanced products in the autonomous vehicle industry, which could result in the loss of competitiveness of our lidar solutions, decreased revenue and a loss of market share to competitors. As technologies change, we plan to upgrade or adapt our lidar solutions with the latest technology. However, our solutions may not compete effectively with alternative systems if we are not able to source and integrate the latest technology into our existing lidar solutions.

Even if lidar products are used in initial generations of autonomous driving technology and certain ADAS products, we cannot guarantee that lidar products will be designed into or included in subsequent generations of such commercialized technology. Many automakers are now concentrating on improving consumer vehicle ADAS technology and creating new conditional automation systems; however, as these products and features are newly emerging, consumer acceptance and pricing desirability remains uncertain, and automakers may discontinue or decrease use in favor of cheaper vehicles, particularly if government regulations and safety ratings do not support ADAS technology. In addition, we expect that initial generations of fully autonomous vehicles will be focused on limited applications, such as robo-taxis, and that mass market adoption of autonomous technology may lag behind these initial applications significantly. The speed of market growth for ADAS or autonomous vehicles is difficult if not impossible to predict, and it is more difficult to predict this market's future growth in light of the economic consequences of the COVID-19 pandemic, geopolitical instability, rapid inflation, and recession. Educating customers about lidar, its advantages over other sensing technologies and lidar's ability to convey value in different industries and deployments is also an integral part of developing new business and the lidar market generally and if customers have a negative perception of, or experience with, lidar or a competitor's lidar products, they may be reluctant to adopt lidar in general or specifically our products. Our investments and efforts to educate potential customers and the market generally and to counter any adverse statements made by competitors or other market participants thus may not be successful.

Although we currently believe we are a leader in lidar-based systems for the autonomous vehicle market, by the time mass market adoption of autonomous vehicle technology is achieved, we expect competition among providers of sensing technology based on lidar and other modalities to increase substantially. If commercialization of lidar products is not successful, or not as successful as we or the market expects, or if other sensing modalities gain acceptance by developers of autonomous driving systems or ADAS, automotive OEMs, regulators and safety organizations or other market participants by the time autonomous vehicle technology achieves mass market adoption, our business, results of operations and financial condition will be materially and adversely affected.



In addition to automotive markets, we are investing in and pursuing market opportunities in other markets, including in aerospace, defense and aviation. We believe that our future revenue growth, if any, will depend in part on our ability to expand within new markets such as these and to enter new markets as they emerge. Each of these markets presents distinct risks and, in many cases, requires us to address the particular requirements of that market.

Addressing these requirements can be time-consuming and costly. The market for lidar technology outside of automotive applications is relatively new, rapidly developing and unproven in many markets or industries. Many of our customers outside of the automotive industry are still in the testing and development phases and we cannot be certain that they will commercialize products or systems with our lidar products or at all. We cannot be certain that lidar will be sold into these markets, or any market outside of the automotive market, at scale. Adoption of lidar products, including our products, outside of the automotive industry will depend on numerous factors, including: whether the technological capabilities of lidar and lidar-based products meet users' current or anticipated needs, whether the benefits of designing lidar into larger sensing systems outweigh the costs, complexity and time needed to deploy such technology or replace or modify existing systems that may have used other modalities such as cameras and radar, whether users in other applications can move beyond the testing and development phases and proceed to commercializing systems supported by lidar technology and whether lidar developers such as us can keep pace with rapid technological change in certain developing markets and the global response to evolving conditions relating to the COVID-19 pandemic and the length of any associated work stoppages. If lidar technology does not achieve commercial success outside of the automotive industry, or if the market develops at a pace slower than we expect, our business, results of operation and financial condition will be materially and adversely affected.

#### We may experience difficulties in managing our growth and expanding our operations.

We expect to experience significant growth in the scope and nature of our operations. Our ability to manage our operations and future growth will require us to continue to improve our operational, financial and management controls, compliance programs and reporting systems. We are currently in the process of strengthening our compliance programs, including our compliance programs related to export controls, privacy and cybersecurity and anti-corruption. We may not be able to implement improvements in an efficient or timely manner and may discover deficiencies in existing controls, programs, systems and procedures, which could have an adverse effect on our business, reputation and financial results.

# We rely on third-party suppliers and because some of the raw materials and key components in our products come from limited or single source suppliers, we are susceptible to supply shortages, long lead times for components, and supply changes, any of which could disrupt our supply chain and could delay deliveries of our products to customers.

Some of the components that go into the manufacture of our solutions are sourced from third-party suppliers. To date, we have produced our products in relatively limited quantities for use in R&D programs. Although we do not have any experience in managing our supply chain to manufacture and deliver our products at scale, our future success will depend on our ability to manage our supply chain to manufacture and deliver our products at scale. Some of the key components used to manufacture our products come from limited or single source suppliers. We are therefore subject to the risk of shortages and long lead times in the supply of these components, including integrated circuits which are in short supply in the near term, and the risk that our suppliers discontinue or modify components used in its products. We have a global supply chain and the COVID-19 pandemic and other health epidemics and outbreaks, as well as geopolitical events, and government trade restrictions, may adversely affect our ability to source components in a timely or cost effective manner from our third-party suppliers due to, among other things, work stoppages or interruptions. For example, our products depend on lasers and we currently consume a substantial portion of the available market. Any shortage of these lasers could materially and adversely affect our ability to manufacture our solutions. In addition, the lead times associated with certain components are lengthy and preclude rapid changes in quantities and delivery schedules. We have in the past experienced and may in the future experience component shortages and price fluctuations of certain key components and materials, and the predictability of the availability and pricing of these components may be limited. Component shortages or pricing fluctuations could be material in the future. In the event of a component shortage, supply interruption or material pricing change from suppliers of these components, we may not be able to develop alternate sources in a timely manner or at all in the case of sole or limited sources. Developing alternate sources of supply for these components may be time-consuming, difficult, and costly and we may not be able to source these components on terms that are acceptable to us, or at all, which may undermine our ability to meet our requirements or to fill customer orders in a timely manner. Any interruption or delay in the supply of any of these parts or components, or the inability to obtain these parts or components from alternate sources at acceptable prices and within a reasonable amount of time, would adversely affect our ability to meet our scheduled product deliveries to our customers. This could adversely affect our relationships with our customers and channel partners and could cause delays in shipment of our products and adversely affect our operating results. In addition, increased component costs could result in lower gross margins. Even where we are able to pass increased component costs along to our customers, there may be a lapse of time before we are able to do so such that we must absorb the increased cost. If we are unable to buy these components in quantities sufficient to meet our requirements on a timely basis, we



will not be able to deliver products to our customers, which may result in such customers using competitive products instead of ours.

# Because our sales have been primarily to customers making purchases for R&D projects and our orders are project-based, we expect our results of operations to fluctuate on a quarterly and annual basis, which could cause our stock price to fluctuate or decline.

Our quarterly results of operations have fluctuated in the past and may vary significantly in the future. As such, historical comparisons of our operating results may not be meaningful. In particular, because our sales to date have primarily been to customers making purchases for R&D, sales in any given quarter can fluctuate based on the timing and success of our customers' development projects. Accordingly, the results of any one quarter should not be relied upon as an indication of future performance. Our quarterly financial results may fluctuate as a result of a variety of factors, many of which are outside of our control and may not fully reflect the underlying performance of our business. These fluctuations could adversely affect our ability to meet our expectations or those of securities analysts, ratings agencies or investors. If we do not meet these expectations for any period, the value of our business and our securities could decline significantly. Factors that may cause these quarterly fluctuations include, without limitation, those listed below:

- the timing and magnitude of orders and shipments of our products in any quarter;
- pricing changes we may adopt to drive market adoption or in response to competitive pressure;
- our ability to retain our existing customers and attract new customers;
- our ability to develop, introduce, manufacture and ship in a timely manner products that meet customer requirements;
- disruptions in our sales channels or termination of its relationship with important channel partners;
- delays in customers' purchasing cycles or deferments of customers' purchases in anticipation of new products or up-dates from us or our competitors;
- fluctuations in demand pressures for our products;
- the mix of products sold in any quarter;
- the duration of the global COVID-19 pandemic and the time it takes for economic recovery;
- the timing and rate of broader market adoption of autonomous systems utilizing our solutions across the automotive and other market sectors;
- market acceptance of lidar and further technological advancements by our competitors and other market participants;
- the ability of our customers to commercialize systems that incorporate our products;
- any change in the competitive dynamics of our markets, including consolidation of competitors, regulatory developments and new market entrants;
- our ability to effectively manage our inventory;
- changes in the source, cost, availability of and regulations pertaining to materials we use, including the effect of inflation on the cost of components for our products;
- adverse litigation, judgments, settlements or other litigation-related costs, or claims that may give rise to such costs; and
- general economic, industry and market conditions, including trade disputes.

## Our transition to an outsourced manufacturing business model may not be successful, which could harm our ability to deliver products and recognize revenue.

We are in the initial stages of transitioning from a manufacturing model in which we primarily manufactured and assembled our products at our Orlando, Florida location, to one where we rely on third-party manufacturers in Mexico, Thailand and potentially other foreign and domestic locations. We believe the use of third-party manufacturers will have benefits, but in the near term, while we are beginning manufacturing with new partners, we may lose revenue, incur increased costs and potentially harm our customer relationships.

Reliance on third-party manufacturers reduces our control over the manufacturing process, including our ability to finalize changes through validation, reduced control over quality, product costs and product supply and timing. We may

experience delays in shipments or issues concerning product quality from our third-party manufacturers. If any of our third-party manufacturers experience interruptions, delays or disruptions in supplying our products, including due to natural disasters, the global COVID-19 pandemic, other health epidemics and outbreaks, geopolitical events, trade restrictions, or work stoppages or capacity constraints, our ability to ship products to distributors and customers would be delayed. In addition, unfavorable economic conditions could result in financial distress among third-party manufacturers upon which we rely, including those caused by tax or tariff changes, thereby increasing the risk of disruption of supplies necessary to fulfill our production requirements and meet customer or megulatory requirements, we could be required to cover the cost of repair or replacement of any defective products. These delays or product quality issues could have an immediate and material adverse effect on our ability to fulfill orders and could have a negative effect on our operating results. In addition, such delays or issues with product quality could adversely affect our reputation and our relationship with our channel partners. If third-party manufacturers experience financial, operational, manufacturing capacity or other difficulties, or experience shortages in required to seek alternate manufacturers and we may be required to re-design our products. It would be time-consuming, and could be costly and impracticable, to begin to use new manufacturers and designs, and such changes could cause significant interruptions in supply and could have an adverse effect on our ability to meet our scheduled product deliveries and may subsequently lead to the loss of sales. While we take measures to protect our trade secrets, the use of third-party manufacturers may also risk disclosure of our innovative and proprietary manufacturers and we may be methodologies, which could adversely affect or business.

#### Our sales and operations in international markets, including our manufacturing operations, expose us to operational, financial and regulatory risks.

International sales comprise a significant amount of our overall revenue. Sales to international customers accounted for 14%, 29% and 71% of our revenue in 2022, 2021 and 2020, respectively. We are committed to growing our international sales. While we have committed resources, and are working closely with OEMs and other collaborators outside the United States, to expand our international operations and sales channels, these efforts may not be successful. We have also commenced international manufacturing operations. International operations, including any manufacturing operations, are subject to a number of other risks, including:

- foreign currency and exchange rate fluctuations;
- local economic conditions;
- political and economic instability, wars and military conflicts, international terrorism and anti-American sentiment, particularly in emerging markets;
- global or regional health crises, such as the COVID-19 pandemic or other health epidemics and outbreaks;
- potential for violations of anti-corruption laws and regulations, such as those related to bribery and fraud;
- · tariffs, other trade barriers and restrictions and preference for locally branded products, and laws and business practices favoring local competition;
- potential consequences of, and uncertainty related to, the "Brexit" process in the United Kingdom, which could lead to additional expense and complexity in doing business there;
- increased difficulty in managing inventory;
- difficulties in collecting receivables from foreign entities;
- less effective protection of intellectual property;
- foreign government regulatory requirements and stringent regulation of the autonomous or other systems or products using our products and stringent consumer
  protection and product compliance regulations, including but not limited to General Data Protection Regulation in the European Union, European competition law, the
  Restriction of Hazardous Substances Directive, the Waste Electrical and Electronic Equipment Directive and the European Ecodesign Directive, all of which are
  costly to comply with and may vary from country to country;
- difficulties and costs of staffing and managing foreign operations;
- import and export laws and requirements and the impact of tariffs;
- · potentially adverse tax consequences and changes in local tax and customs duty laws or changes in the enforcement, application or interpretation of such laws; and
- U.S. government's restrictions on certain technology transfer to certain countries of concern.

The occurrence of any of these risks could negatively affect our international business or increase our costs and decrease our profit margins and consequently materially and adversely affect our business, operating results and financial condition.

# We, our outsourcing partners and our suppliers may rely on complex machinery for our production, which involves a significant degree of risk and uncertainty in terms of operational performance and costs.

We, our outsourcing partners and our suppliers may rely on complex machinery for the production, assembly and installation of our lidar solutions, which will involve a significant degree of uncertainty and risk in terms of operational performance and costs. Our production facilities and the facilities of our outsourcing partners and suppliers consist of large-scale machinery with high capital expense combining many components. These components may suffer unexpected malfunctions from time to time and will depend on repairs and spare parts to resume operations, which may not be available when needed. Unexpected malfunctions of these components may significantly affect the intended operational efficiency. Operational performance and costs can be difficult to predict and are often influenced by factors outside of our control, such as, but not limited to, scarcity of natural resources, environmental hazards and remediation, costs associated with decommissioning of machines, labor disputes and strikes, difficulty or delays in obtaining governmental permits, damages or defects in electronic systems, industrial accidents, fire, seismic activity and natural disasters. Should operational risks materialize, it may result in the personal injury to or death of workers, the loss of production equipment, damage to production facilities, monetary losses, delays and unanticipated fluctuations in production or operating results.

# As part of growing our business, we may make acquisitions. If we fail to successfully select, execute or integrate our acquisitions, then our business, results of operations and financial condition could be materially adversely affected, and our stock price could decline.

From time to time, we may undertake acquisitions to add new products and technologies, acquire talent, gain new sales channels or enter into new markets or sales territories. In addition to possible stockholder approval, we may need approvals and licenses from relevant government authorities for the acquisitions and to comply with any applicable laws and regulations, which could result in increased delay and costs, and may disrupt our business strategy if we fail to do so. Furthermore, acquisitions and the subsequent integration of new assets, businesses, key personnel, customers, vendors and suppliers require significant attention from our management and could result in a diversion of resources from our existing business, which in turn could have an adverse effect on our operations. Acquired assets or businesses may not generate the financial results we expect. Acquisitions could result in the use of substantial amounts of cash, dilutive issuances of equity securities, the occurrence of significant goodwill impairment charges, amortization expenses for other intangible assets and exposure to potential unknown liabilities of the acquired business. Moreover, the costs of identifying and consummating acquisitions may be significant.

To date, we have limited experience with acquisitions and the integration of acquired technology and personnel. Failure to successfully identify, complete, manage and integrate acquisitions could materially and adversely affect our business, financial condition and results of operations and could cause our stock price to decline.

# Any failure to grow our relationship with Chinese customers and our proposed international expansion into China could expose us to substantial business, regulatory, political, financial and economic risks.

We have entered into relationships with Chinese customers pursuant to which we plan to establish a presence in China to support the collaboration between the parties and enable series production of autonomous vehicles utilizing our technology by 2023. Any failure in our ability to establish our presence in China, grow our relationship with Chinese OEMs, successfully launch our products and maintain product quality, or to realize the anticipated benefits of our relationships could harm our brand, prospects, financial condition and operating results and have an adverse effect on our business. Our proposed expansion into China could also expose us to substantial risks associated with doing business in China, such as, taxation, inflation, manufacturing, environmental and other regulations, foreign currency exchange rates, political risks, intellectual property risks, the labor market and property and financial regulations. Additionally, we would need to maintain compliance with the market's ongoing development of standards to define deployment requirements for higher levels of autonomy.

Our ability to operate in China may also be adversely affected by changes in, or our failure to comply with, Chinese laws, regulations and standards. As we hire personnel to maintain our operations in China, we would also be exposed to risks associated with any changes to the employment and labor laws in China, which could increase our operating costs in China. There is also significant uncertainty about the future relationship between the United States and China with respect to political risks, including but not limited to, trade policies, technology transfer restrictions, treaties, government regulations and tariffs. See "Changes to trade policy, tariffs and import/export regulations may have a material adverse effect on our business, financial condition and results of operations" below.

# The complexity of our products could result in unforeseen delays or expenses from undetected defects, errors or reliability issues in hardware or software which could reduce the market adoption of our new products, damage our reputation with current or prospective customers, expose us to product liability and other claims and adversely affect our operating costs.

Our products, including our hardware and in-development software, are highly technical and very complex and require high standards to manufacture and have in the past and will likely in the future experience defects, security vulnerabilities or other errors or reliability issues at various stages of development. We may be unable to timely release new products, manufacture existing products, correct problems that have arisen or correct such problems to our customers' satisfaction. Additionally, undetected errors, defects or security vulnerabilities, especially as new products are introduced or as new versions are released, could result in serious injury to the end users of technology incorporating our products, or those in the surrounding area. Other consequences could include our customers never being able to commercialize technology incorporating our products, litigation against us, negative publicity and other consequences. These risks are particularly prevalent in the highly competitive autonomous driving and ADAS markets. Some errors or defects in our products may only be discovered after they have been tested, commercialized and deployed by customers. If an accident involving a vehicle using our technology were to occur and result in injuries or purported injuries or death, we may incur significant costs from product recalls and repair or replacement requirements, as well as lawsuits, including class actions for product liability or other claims against us by our customers and end users which could result in substantial costs and diversion of management resources. Our reputation or brand may also be damaged as a result of these problems and customers may be reluctant to buy our products, which could adversely affect our ability to retain existing customers and attract new customers and could adversely affect our financial results.

We could also face claims for breach of contract, fraud, tort or breach of warranty as a result of these problems, and our business liability insurance coverage could prove inadequate with respect to a claim and future coverage may be unavailable on acceptable terms or at all.

In addition, if lawmakers or governmental agencies were to determine that the use of our products or autonomous driving or certain ADAS applications increased the risk of injury to all or a subset of end users, they may pass laws or adopt regulations that limit the use of our products or increase our liability associated with the use of our products or that regulate the use of or delay the deployment of autonomous driving and ADAS technology. Any of these events could adversely affect our brand, relationships with customers, operating results or financial condition.

# We may be subject to product liability or warranty claims that could result in significant direct or indirect costs, which could adversely affect our business and operating results.

We typically provide a limited-time warranty on our products. The occurrence of any material defects in our products could make us liable for damages and warranty claims. In addition, we could incur significant costs to correct any defects, warranty claims or other problems, including costs related to product recalls. Any negative publicity related to the perceived quality of our products could affect our brand image, partner and customer demand, and adversely affect our operating results and financial condition. Also, warranty, recall and product liability claims may result in litigation, including class actions, the occurrence of which could be costly, lengthy and distracting and adversely affect our business and operating results.

# If we do not maintain sufficient inventory or if we do not adequately manage our inventory, we could lose sales or incur higher inventory-related expenses, which could negatively affect our operating results.

To ensure adequate inventory supply, we must forecast inventory needs and expenses, place orders sufficiently in advance with our suppliers and manufacturing partners and manufacture products based on our estimates of future demand for particular products. Fluctuations in the adoption of lidar products may affect our ability to forecast our future operating results, including revenue, gross margins, cash flows and profitability. Our ability to accurately forecast demand for our products could be affected by many factors, including the rapidly changing nature of the autonomous driving and ADAS markets in which we operate, the uncertainty surrounding the market acceptance and commercialization of lidar technology, the emergence of new markets, an increase or decrease in customer demand for our products or for products and services of our competitors, product introductions by competitors, the COVID-19 pandemic, other health epidemics and outbreaks, and any associated work stoppages or interruptions, unanticipated changes in general market conditions and the weakening of economic conditions or consumer confidence in future economic conditions. If our lidar products are commercialized in autonomous driving and ADAS applications, both of which are experiencing rapid growth in demand, we may face challenges acquiring adequate supplies to manufacture our products and/or we and our manufacturing partners may not be able to manufacture our products at a rate necessary to satisfy the levels of demand, which would negatively affect our revenue and operating results and could result in damage to our brand and customer relationships. This risk may be exacerbated by the fact that we may not carry or be able to obtain for our manufacturers a significant amount of inventory to satisfy short-term demand increases. If we fail to accurately forecast customer demand, we may experience excess inventory levels or a shortage of products available for sale.



Inventory levels in excess of customer demand may result in inventory write-downs or write-offs and the sale of excess inventory at discounted prices, which would adversely affect our financial results, including our gross margin, and have a negative effect on our brand.

## The average selling prices of our products could decrease rapidly over the life of the product, which may negatively affect our revenue and gross margin.

We may experience declines in the average selling prices of our products generally as our customers seek to commercialize autonomous systems at prices low enough to achieve market acceptance. In order to sell products that have a falling average unit selling price and maintain margins at the same time, we will need to continually reduce product and manufacturing costs. To manage manufacturing costs, we must engineer the most cost-effective design for our products. We must also continuously drive initiatives to reduce labor cost, improve worker efficiency, reduce the cost of materials, use fewer materials and further lower overall product costs by carefully managing component prices, inventory and shipping cost. We also need to continually introduce new products with higher gross margin to maintain our overall gross margin. If we are unable to manage the cost of older products or successfully introduce new products with higher gross margin, our revenue and overall gross margin would likely decline.

## Adverse conditions in the automotive industry or the global economy more generally could have adverse effects on our results of operations.

While we make our strategic planning decisions based on the assumption that the markets we are targeting will grow, our business is dependent, in large part on, and directly affected by, business cycles and other factors affecting the global automobile industry and global economy generally. Automotive production and sales are highly cyclical and depend on general economic conditions and other factors, including consumer spending and preferences, changes in interest rates and credit availability, consumer confidence, fuel costs, fuel availability, environmental impact, governmental incentives and regulatory requirements, and political volatility, especially in energy-producing countries and growth markets. In addition, automotive production and sales can be affected by our automotive OEM customers' ability to continue operating in response to challenging economic conditions and in response to labor relations issues, regulatory requirements, trade agreements and other factors, such as COVID-19's impact on supply of semiconductors for automobiles. The volume of automotive production in North America, Europe and the rest of the world has fluctuated, sometimes significantly, from year to year, and we expect such fluctuations to give rise to fluctuations in the demand for our products. Any significant adverse change in any of these factors may result in a reduction in automotive sales and production by our automotive OEM customers and could have a material adverse effect on our business, results of operations and financial condition.

# Because lidar is new and since many of the markets in which we compete are new and rapidly evolving, it is difficult to forecast long-term end-customer adoption rates and demand for our products.

We are pursuing opportunities in markets that are undergoing rapid changes, including technological and regulatory changes, and it is difficult to predict the timing and size of the opportunities. For example, autonomous driving and lidar-based ADAS applications require complex technology. Because these automotive systems depend on technology from many companies, commercialization of autonomous driving or ADAS products could be delayed or impaired on account of certain technological components of our or others not being ready to be deployed in vehicles. Although we currently are engaged with multiple commercial customers, these companies may not be able to commercialize our technology immediately, or at all. Regulatory, safety or reliability developments, many of which are outside of our control, could also cause delays or otherwise impair commercial adoption of these new technologies, including whether government policy, regulation, and consumer education and ratings programs support autonomous technology or improved driver assistance systems. Our future financial performance will depend on our ability to make timely investments in the correct market opportunities and to anticipate potential technological changes. If one or more of these markets experience a shift in customer or prospective customer demand, our products may not compete as effectively, if at all, and they may not be designed into commercialized products. Given the evolving nature of the markets in which we operate, it is difficult to predict customer demand or adoption rates for our products or the future growth of the markets in which we operate. As a result, any financial projections in this Annual Report and any market opportunity estimates and forecasts of market growth necessarily reflect various estimates and assumptions that may not prove accurate and these projections could differ materially from actual results due to the risks included in this "Risk Factors" section, among others. If demand does not develop or if we cannot accurately forecast customer demand, the size of our markets, inventory requirements or our future financial results, our business, results of operations and financial condition will be adversely affected. Even if markets experience the forecasted growth described in this Annual Report, we may not grow our business at similar rates, or at all, since our business is subject to many risks and uncertainties set forth in this Annual Report. Accordingly, the forecasts and estimates of market size and growth described in this Annual Report, including our estimates of the size of our total addressable market should not be taken as indicative of our future growth.



# We currently have and target customers that are large corporations with substantial negotiating power, exacting product standards and potentially competitive internal solutions. If we are unable to sell our products to these customers, our prospects and results of operations will be adversely affected.

Many of our customers and potential customers are large, multinational corporations with substantial negotiating power relative to us and, in some instances, may have internal solutions that are competitive to our products. These large, multinational corporations also have significant development resources, which may allow them to acquire or develop independently, or in partnership with others, competitive technologies. Meeting the technical requirements and securing major commercial wins with any of these companies will require a substantial investment of our time and resources. We cannot assure you that our products will secure major commercial wins from these or other companies or that we will generate meaningful revenue from the sales of our products to these key potential customers. If our products are not selected by these large corporations or if these corporations develop or acquire competitive technology, it will have an adverse effect on our business.

# We are substantially dependent on our partnership with a few key customers, and our business could be materially and adversely affected if our partnership with any of such customers were terminated. Our financial position and results could be materially and adversely affected if we were unable to collect our invoices for any of our key customers.

We are dependent on a collection of large customers with strong purchasing power. In 2022, 2021 and 2020, our top 10 customers represented 69%, 87% and 94% of our revenue, respectively. In 2022, Daimler and Scale.AI, in 2021, Daimler and Volvo and in 2020, Volvo accounted for more than 10% of our annual revenue. The loss of business from any of our major customers (whether by lower overall demand for our products, cancellation of existing contracts or product orders or the failure to design in our products or award us new business) could have a material adverse effect on our business.

To the extent autonomous vehicle and ADAS systems become accepted by major automotive OEMs, we expect that we will rely increasingly for our revenue on Tier 1 suppliers through which automotive OEMs procure components. We expect that these Tier 1 suppliers will be responsible for certain hardpoint and software configuration activities specific to each OEM, and they may not exclusively carry our solutions.

There can be no assurance that we will be able to maintain our relationship with any of our key customers and secure orders for our products. If we are unable to maintain our relationship any of our key customers, or if our arrangement is modified so that the economic terms become less favorable to us, then our business, financial results and position would be materially adversely affected. There is also a risk that one or more of our major customers could be unable to pay our invoices as they become due or that a customer will simply refuse to make such payments if it experiences financial difficulties. If a major customer were to enter into bankruptcy proceedings or similar proceedings whereby contractual commitments are subject to stay of execution and the possibility of legal or other modification, we could be forced to record a substantial loss.

# If we are unable to establish and maintain confidence in our long-term business prospects among customers and analysts and within our industry or are subject to negative publicity, then our financial condition, operating results, business prospects and access to capital may suffer materially.

Customers may be less likely to purchase our lidar solutions if they are not convinced that our business will succeed or that our service and support and other operations will continue in the long term.

Similarly, suppliers and other third parties will be less likely to invest time and resources in developing business relationships with us if they are not convinced that our business will succeed. Accordingly, in order to build and maintain our business, we must maintain confidence among customers, suppliers, analysts, ratings agencies and other parties in our products, long-term financial viability and business prospects. Maintaining such confidence may be particularly complicated by certain factors including those that are largely outside of our control, such as our limited operating history, customer unfamiliarity with our lidar solutions, any delays in scaling production, delivery and service operations to meet demand, competition and uncertainty regarding the future of autonomous vehicles or our other services and our production and sales performance compared with market expectations.

# We operate in a highly competitive market and some market participants have substantially greater resources. We compete against a large number of both established competitors and new market entrants.

The markets for sensing technology applicable to autonomous solutions in the automobile industry are highly competitive. Our future success will depend on our ability to remain a leader in our targeted markets by continuing to develop and protect from infringement advanced lidar technology in a timely manner and to stay ahead of existing and new competitors. Our competitors are numerous and they compete with us directly by offering lidar products and indirectly by attempting to solve some of the same challenges with different technology. We face competition from camera and radar companies, other developers of lidar products, Tier 1 suppliers and other technology and automotive supply companies, some of which have significantly greater resources than we do. In the automotive market, our competitors have commercialized both lidar and non-lidar-based ADAS technology that has achieved market adoption, strong brand recognition and may continue to improve. Other

competitors are working towards commercializing autonomous driving technology and either by themselves, or with a publicly announced partner, have substantial financial, marketing, R&D and other resources. Some of our customers in the autonomous vehicle and ADAS markets have announced development efforts or made acquisitions directed at creating their own lidar-based or other sensing technologies, which would compete with our solutions. We do not know how close these competitors are to commercializing autonomous driving systems or novel ADAS applications. In markets outside of the automotive industry, our competitors, like us, seek to develop new sensing applications across industries. Even in these emerging markets, we face substantial competition from numerous competitors seeking to prove the value of their technology.

Additionally, increased competition may result in pricing pressure and reduced margins and may impede our ability to increase the sales of our products or cause us to lose market share, any of which will adversely affect our business, results of operations and financial condition.

If we are unable to achieve technological feasibility and commercialize our software products, including our perception and decision-making software products such as our Proactive Safety<sup>TM</sup> and highway autonomy features, and other new solutions and improve existing solutions in a cost-effective and timely manner, then our competitive position would be negatively impacted and our business, results of operations and financial condition would be adversely affected. The markets in which we compete are characterized by rapid technological change, which requires us to continue to develop new products and product innovations and could adversely affect market adoption of our products.

Our future success will depend upon our ability to develop our software products, including our perception and decision-making software products such as our Proactive Safety<sup>TM</sup> and highway autonomy features, and our ability to introduce a variety of new capabilities, product offerings and innovations to our existing product offerings, to address the changing needs of the markets in which we offer our products.

We are currently working on developing perception and decision-making software products, including the Proactive Safety<sup>TM</sup> and highway autonomy features as well as the Sentinel solution, all of which are important components of our business plan and which have not achieved technological feasibility as of the end of the 2022 fiscal year. We may encounter significant unexpected technical and production challenges, or delays in completing the development of these and other solutions and ramping production in a cost-efficient manner. We cannot guarantee that such software or other new products will be successfully developed, released in a timely manner, or at all, or achieve satisfactory performance or market acceptance and any such failure could materially adversely affect our business, results of operations and financial condition, and cause our stock price to decline.

Delays in delivering new products that meet customer requirements could damage our relationships with customers and lead them to seek alternative sources of supply and we may not be able to achieve additional design wins with existing or new customers, or achieve broader market acceptance of our solutions. In addition, our success to date has been based on the delivery of our solutions to R&D programs in which developers are investing substantial capital to develop new systems. Our continued success relies on the success of the R&D phase of these customers as they expand into commercialized projects. As autonomous technology reaches the stage of large-scale commercialization, we will be required to develop and deliver solutions at price points that enable wider and ultimately mass-market adoption. Failure to achieve technological feasibility of our software products, or delays in introducing products and innovations, the failure to choose correctly among technical alternatives or the failure to offer innovative products or configurations at competitive prices may cause existing and potential customers to purchase our competitors' products or turn to alternative sensing technology.

If we are unable to devote adequate resources to develop products or cannot otherwise successfully develop products or system configurations that meet customer requirements and on a timely basis or that remain competitive with technological alternatives, our products could lose market share, our revenue could decline, we may experience operating losses and our business and prospects would be adversely affected.

While we intend to invest substantial resources to remain on the forefront of technological development, continuing technological changes in sensing technology, lidar and the markets for these products, including the ADAS and autonomous driving industries, could adversely affect adoption of lidar and/or our products, either generally or for particular applications.

# We had identified material weaknesses in our internal control over financial reporting as of December 31, 2021 and 2020. These material weaknesses were remediated in 2022, however, if we are unable to maintain an effective system of internal control over financial reporting, we may not be able to accurately report our financial results in a timely manner, which may adversely affect investor confidence in us and materially and adversely affect our business and operating results.

In connection with our financial statement close process for the years ended December 31, 2021 and 2020, we had identified material weaknesses in the design and operating effectiveness of our internal control over financial reporting. The material weaknesses we identified resulted from a lack of sufficient number of qualified personnel within our accounting and internal audit function who possessed an appropriate level of expertise to effectively perform functions relating to control environment, control activities, information and communication and monitoring. In addition, these material weaknesses

contributed to material weaknesses in information technology controls and journal entry review. These material weaknesses were remediated during the year ended December 31, 2022. For a further discussion of these material weaknesses and steps undertaken by our management for the remediation, see "Management's Report on Internal Control over Financial Reporting" in Item 9A. Controls and Procedures.

A material weakness is a deficiency or combination of deficiencies in internal control over financial reporting such that there is a reasonable possibility that a material misstatement of our financial statements would not be prevented or detected on a timely basis. These deficiencies could result in additional material misstatements to our consolidated financial statements that may not be prevented or detected on a timely basis.

Although we have remediated the material weaknesses, additional weaknesses in our internal controls may be discovered in the future. Any failure to further develop or maintain effective controls, or any difficulties encountered in our implementation or improvement, could adversely affect our operating results, cause us to fail to meet our reporting obligations and result in a restatement of our financial statements for prior periods. If any of these were to occur, investors may lose confidence in the accuracy and completeness of our financial reports, the market price of our common stock could be adversely affected. In addition, we could become subject to litigation or investigations by Nasdaq, the SEC, or other regulatory authorities.

### Our ability to use our net operating loss carryforwards and certain other tax attributes may be limited.

As of December 31, 2022, we had \$597.0 million of U.S. federal and \$547.8 million of state net operating loss carryforwards available to reduce future taxable income. Of the \$597.0 million in U.S. federal operating loss carryforwards, \$553.8 million will be carried forward indefinitely for U.S. federal tax purposes and \$43.2 million will expire between 2035 and 2037. The \$547.8 million of our U.S. state net operating loss carryforwards will expire beginning in 2036. It is possible that we will not generate taxable income in time to use these net operating loss carryforwards before their expiration or at all. Under legislative changes made in December 2017, U.S. federal net operating losses incurred in 2018 and in future years may be carried forward indefinitely, but the deductibility of such net operating losses is limited. It is uncertain if and to what extent various states will conform to the newly enacted federal tax law. In addition, the federal and state net operating loss carryforwards and certain tax credits may be subject to significant limitations under Section 382 and Section 383 of the U.S. Tax Code, respectively, and similar provisions of state law. Under those sections of the U.S. Tax Code, if a corporation undergoes an "ownership change," the corporation's ability to use its pre-change net operating loss carryforwards and other pre-change attributes, such as research tax credits, to offset its post-change income or tax may be limited. In general, an "ownership change" will occur if there is a cumulative change in our ownership by "5-percent shareholders" that exceeds 50 percentage points over a rolling three-year period. Similar rules may apply under state tax laws.

#### We are highly dependent on the services of Austin Russell, our Founder, President and Chief Executive Officer.

We are highly dependent on Austin Russell, our Founder, President and Chief Executive Officer. Mr. Russell created our first lidar product and he remains deeply involved in all aspects of our business, including product development. The loss of Mr. Russell would adversely affect our business because his loss could make it more difficult to, among other things, compete with other market participants, manage our R&D activities and retain existing customers or cultivate new ones. Negative public perception of, or negative news related to, Mr. Russell may adversely affect our brand, relationship with customers or standing in the industry.

# Our business depends substantially on the efforts of our executive officers and highly skilled personnel, and our operations may be severely disrupted if we lost their services.

Competition for highly-skilled personnel is often intense, especially in Orlando, Florida and the San Francisco Bay Area, where two of our offices are located, and we may incur significant costs to attract highly-skilled personnel. We may not be successful in attracting, integrating, or retaining qualified personnel to fulfill our current or future needs. We have, from time to time, experienced, and we expect to continue to experience, difficulty in hiring and retaining highly skilled employees with appropriate qualifications. In addition, job candidates and existing employees often consider the value of the equity awards they receive in connection with their employment. Because we believe in an employee compensation philosophy based highly in equity to preserve capital and align employee interests with stockholders, a significant decrease in our stock price or the perceived value of our equity or equity awards may adversely affect our ability to retain highly skilled employees. If we fail to attract new personnel or fail to retain and motivate our current personnel, our business and future growth prospects could be adversely affected and attracting and retaining talent using equity may be more expensive.

## Our business could be materially and adversely affected by the current global COVID-19 pandemic or other health epidemics and outbreaks.

The ongoing COVID-19 pandemic as well as other possible health epidemics and outbreaks could result in a material adverse impact on our or our customers' business operations including reduction or suspension of operations in the U.S. or certain parts of the world. The ongoing COVID-19 pandemic may have the effect of heightening many of the other risks



described in this "Risk Factors" section, such as the demand for our products, our ability to achieve or maintain profitability and our ability to raise additional capital in the future. Our corporate headquarters and R&D and manufacturing base are located in Florida, which has a high number of COVID-19 pandemic cases. Our engineering and manufacturing operations, among others, cannot all be conducted in a remote working structure and often require on-site access to materials and equipment. We have customers with international operations in varying industries. We also depend on suppliers and manufacturers worldwide. Depending upon the duration of the ongoing COVID-19 pandemic and the associated business interruptions, our customers, suppliers, manufacturers and partners may suspend or delay their engagement with us, which could result in a material adverse effect on our financial condition. Our response to the ongoing COVID-19 pandemic may prove to be inadequate and we may be unable to continue our operations in the manner we had prior to the outbreak, and may endure interruptions, reputational harm, delays in our product development and shipments, all of which could have an adverse effect on our business, operating results, and financial condition. In addition, when the pandemic subsides, we cannot assure you as to the timing of any economic recovery, which could continue to have a material adverse effect on our target markets and our business.

#### Interruption or failure of our information technology and communications systems could impact our ability to effectively provide our services.

We plan to include in-vehicle services and functionality that utilize data connectivity to monitor performance and timely capture opportunities to enhance performance and functionality. The availability and effectiveness of our services depend on the continued operation of information technology and communications systems. Our systems will be vulnerable to damage or interruption from, among others, physical theft, fire, terrorist attacks, natural disasters, power loss, war, telecommunications failures, viruses, denial or degradation of service attacks, ransomware, social engineering schemes, insider theft or misuse or other attempts to harm our systems. We utilize reputable third-party service providers or vendors for all of our data other than our source code, and these providers could also be vulnerable to damage or interruption from actions or conditions similar to those that could damage our systems, including sabotage and intentional acts of vandalism causing potential disruptions. Some of our systems will not be fully redundant, and our disaster recovery planning cannot account for all eventualities. Any problems with our third-party cloud hosting providers could result in lengthy interruptions in our business. In addition, our in-vehicle services and functionality are highly technical and complex technology which may contain errors or vulnerabilities that could result in interruptions in our business.

# We are subject to cybersecurity risks to our and our suppliers' operational systems, security systems, infrastructure, integrated software in our lidar solutions and customer data processed by us or third-party vendors or suppliers and any material failure, weakness, interruption, cyber event, incident or breach of security could prevent us from effectively operating our business.

We are at risk for interruptions, outages and breaches of: operational and manufacturing systems, including business, financial, accounting, product development, data processing or production processes, owned by us or our third-party vendors or suppliers; the integrated software in our lidar solutions; or customer or driver data that we process or our third-party vendors or suppliers; the integrated software in our lidar solutions; or customer or driver data that we process or our third-party vendors or suppliers; the integrated software in our lidar solutions; or customer or driver data that we process or our third-party vendors or suppliers; the integrated software in our lidar solutions; or customer or driver data that we process or our third-party vendors or suppliers; result in loss of intellectual property, trade secrets or other proprietary or competitively sensitive information; compromise certain information of customers, employees, suppliers, drivers or others; jeopardize the security of our facilities; or affect the performance of in-product technology and the integrated software in our lidar solutions. A cyber incident could be caused by disasters, insiders (through inadvertence or with malicious intent) or malicious third parties (including nation-states or nation-state supported actors) using sophisticated, targeted methods to circumvent firewalls, encryption and other security defenses, including hacking, fraud, trickery or other forms of deception. The techniques used by cyber attackers change frequently and may be difficult to detect for long periods of time. Although we maintain information technology measures designed to protect us against intellectual property theft, data breaches and other cyber incidents, such measures will require updates and improvements, and we cannot guarantee that such measures will be adequate to detect, prevent or mitigate cyber incidents.

Our cybersecurity controls and systems are young and still maturing. The implementation, maintenance, segregation and improvement of these systems requires significant management time, personnel, support and cost. Moreover, there are inherent risks associated with developing, improving, expanding and updating current systems, including the disruption of our data management, procurement, production execution, finance, supply chain and sales and service processes. These risks may affect our ability to manage our data and inventory, procure parts or supplies or produce, sell, deliver and service our solutions, adequately protect our intellectual property or achieve and maintain compliance with, or realize available benefits under, applicable laws, regulations and contracts. We cannot be sure that the systems upon which we rely, including those of our third-party vendors or suppliers, will be effectively implemented, maintained or expanded as planned. If we do not successfully implement, maintain or expand these systems as planned, our operations may be disrupted, our ability to accurately and timely report our financial results could be impaired, and deficiencies may arise in our internal control over financial results. Moreover, our proprietary information or intellectual property could be

compromised or misappropriated and our reputation may be adversely affected. If these systems do not operate as we expect them to, we may be required to expend significant resources to make corrections or find alternative sources for performing these functions.

A significant cyber incident could impact production capability, harm our reputation, cause us to breach our contracts with other parties or subject us to regulatory actions or litigation, any of which could materially affect our business, prospects, financial condition and operating results. In addition, our insurance coverage for cyber-attacks may not be sufficient to cover all the losses we may experience as a result of a cyber incident.

#### Legal and Regulatory Risks Related to Our Business

# We are subject to governmental export and import control laws and regulations. Our failure to comply with these laws and regulations could have an adverse effect on our business, prospects, financial condition and results of operations.

Our products and solutions are subject to export control and import laws and regulations, including the U.S. Export Administration Regulations, U.S. Customs regulations and various economic and trade sanctions regulations administered by the U.S. Treasury Department's Office of Foreign Assets Controls. U.S. export control laws and regulations and economic sanctions prohibit the shipment of certain products and services to U.S. embargoed or sanctioned countries, governments and persons. In addition, complying with export control and sanctions regulations for a particular sale may be time-consuming and result in the delay or loss of sales opportunities. Exports of our products and technology must be made in compliance with these laws and regulations. If we fail to comply with these laws and regulations, we and certain of our employees could be subject to substantial civil or criminal penalties, including the possible loss of export or privileges, fines, which may be imposed on us and responsible employees or managers.

## Changes to trade policy, tariffs and import/export regulations may have a material adverse effect on our business, financial condition and results of operations.

Geopolitical tensions and conflicts worldwide, including but not limited to China, may result in changing regulatory requirements, trade policies, export controls, import duties and economic disruptions that could impact our operating strategies in the territories or countries where we currently purchase our components, sell our products or conduct our business. The increasing focus on the strategic importance of autonomous vehicles, artificial intelligence ("AI") technologies, and advanced semiconductors may result in additional regulatory restrictions that target products and services capable of enabling or facilitating advanced vehicle automation systems or AI systems, including some or all of our product and service offerings. Such restrictions could include additional unilateral or multilateral export controls on certain products or technology, including but not limited to AI technologies and advanced semiconductors, and include recent U.S. recent restrictions on advanced semiconductor trade to China and China restriction on the collection and use of mapping data, which may be important for automated vehicle software development. As geopolitical tensions have increased, products associated with autonomous vehicles and AI, are increasingly the focus of export control restrictions proposed by stakeholders in the U.S. and its allies, and it is likely that additional unilateral or multilateral controls will be adopted. Such controls may be very broad in scope and application, prohibit us from exporting our products to any or all customers in one or more markets, including but not China and could negatively and materially impact our business, revenue, and financial results. Furthermore, disruption to worldwide semiconductors, has and may continue to affect production of vehicles.

The U.S. has recently instituted or proposed changes in trade policies that include the negotiation or termination of trade agreements, the imposition of higher tariffs on imports into the U.S., economic sanctions on individuals, corporations or countries, and other government regulations affecting trade between the U.S. and other countries where we conduct our business. Increasing use of economic sanctions may impact demand for our products or services, negatively impacting our business and financial results. Additional export restrictions may not only impact our ability to serve overseas markets, but also provoke responses from foreign governments, including China, that negatively impact our supply chain or our ability to provide our products and services to customers in all markets worldwide, which could also materially affect our business, financial condition and results of operations.

As a result of these developments, there may be greater restrictions and economic disincentives on international trade that could adversely affect our business. For example, such changes could adversely affect the automotive market, our ability to access key components or raw materials needed to manufacture our products (including, but not limited to, rare-earth metals), our ability to sell our products to customers outside of the U.S. and the demand for our products. It may be time-consuming and expensive for us to alter our business operations to adapt to or comply with any such changes, and any failure to do so could have a material adverse effect on our business, financial condition and results of operations.



# We have in the past and may become involved in legal and regulatory proceedings and commercial or contractual disputes, which could have an adverse effect on our profitability and consolidated financial position.

We may be, from time to time, involved in litigation, regulatory proceedings and commercial or contractual disputes that may be significant. These matters may include, without limitation, disputes with our suppliers and customers, intellectual property claims, stockholder litigation, government investigations, class action lawsuits, personal injury claims, environmental issues, customs and value-added tax disputes and employment and tax issues. In addition, we have in the past and could face in the future a variety of labor and employment claims against us, which could include but is not limited to general discrimination, wage and hour, privacy, ERISA or disability claims. In such matters, government agencies or private parties may seek to recover from us very large, indeterminate amounts in penalties or monetary damages (including, in some cases, treble or punitive damages) or seek to limit our operations in some way. These types of lawsuits could require significant management time and attention or could involve substantial legal liability, adverse regulatory outcomes, and/or substantial expenses to defend. Often these cases raise complex factual and legal issues and create risks and uncertainties. No assurances can be given that any proceedings and claims will not have a material adverse impact on our operating results and consolidated financial position or that our established reserves or our available insurance will mitigate this impact.

# We are subject to, and must remain in compliance with, numerous laws and governmental regulations concerning the manufacturing, use, distribution and sale of our products. Some of our customers also require that we comply with their own unique requirements relating to these matters.

We manufacture and sell products that contain electronic components, and such components may contain materials that are subject to government regulation in both the locations where we manufacture and assemble our products, as well as the locations where we sell our products. For example, certain laws or regulations limit the use of restricted materials or materials from certain regions, such as EU Registration, Evaluation, Authorisation and Restriction of Chemicals and the U.S. Toxic Substances Control Act and those that relate to conflict minerals or forced labor. Since we operate on a global basis, this is a complex process which requires continual monitoring of regulations and an ongoing compliance process to ensure that we and our suppliers are in compliance with existing regulations in each market where we operate. In addition, as a lidar technology company, we are subject to the Electronic Product Radiation Control Provisions of the Federal Food, Drug, and Cosmetic Act. These requirements are enforced by the FDA. Electronic product labeling and reports to the FDA that their products comply with applicable performance standards as well as maintain manufacturing, testing, and distribution records for their products. Failure to comply with these requirements could result in enforcement action by the FDA, which could require us to cease distribution of our products, recall or remediate products already distributed to customers, or subject us to FDA enforcement.

If there is an unanticipated new regulation that significantly impacts our use and sourcing of various components or requires more expensive components, that regulation could materially adversely affect our business, results of operations and financial condition.

Our products are used for autonomous driving and ADAS applications, which are subject to complicated regulatory schemes that vary from jurisdiction to jurisdiction. These are rapidly evolving areas where new regulations could impose limitations on the use of lidar generally or our products specifically, or may fail to support the benefits to safety of lidar-based driver assistance and crash avoidance technology. If we fail to adhere to these new regulations or fail to continually monitor the updates, we may be subject to litigation, loss of customers or negative publicity and our business, results of operations and financial condition will be adversely affected.

## We are subject to various environmental laws and regulations that could impose substantial costs upon us and cause delays in building our production facilities.

Concerns over environmental pollution and climate change have produced significant legislative and regulatory efforts on a global basis, and we believe this will continue both in scope and in the number of countries participating. In addition, as climate change issues become more prevalent, foreign, federal, state and local governments and our customers have been responding to these issues. The increased focus on environmental sustainability may result in new regulations and customer requirements, or changes in current regulations and customer requirements, which could materially adversely impact our business, results of operations and financial condition. If we are unable to effectively manage real or perceived issues, including concerns about environmental impacts or similar matters, sentiments toward us or our products could be negatively impacted, and our business, results of operations or financial condition could suffer.

Our operations are and will be subject to international, federal, state and local environmental laws and regulations, and such laws and regulations could directly increase the cost of energy, which may have an effect on the way we manufacture products or utilize energy to produce our products. In addition, any new regulations or laws in the environmental area might increase the cost of raw materials or key components we use in our products. Environmental regulations require us to reduce



product energy usage, monitor and exclude an expanding list of restricted substances and to participate in required recovery and recycling of our products. Environmental and health and safety laws and regulations can be complex, and we have limited experience complying with them. Capital and operating expenses needed to comply with environmental laws and regulations can be significant, and violations may result in substantial fines and penalties, third-party damages, suspension of production or a cessation of our operations. Contamination at properties we operate, we formerly operated or to which hazardous substances were sent by us, may result in liability for us under environmental laws and regulations, including, but not limited to, the Comprehensive Environmental Response, Compensation and Liability Act, which can impose liability for the full amount of remediation-related costs without regard to fault, for the investigation and cleanup of contaminated soil and ground water, for building contamination and impacts to human health and for damages to natural resources. The costs of complying with neuronmental laws and regulations in the future, could have a material adverse effect on our financial condition or operating results. We may face unexpected delays in obtaining the required permits and approvals in connection with our planned production facilities that could require significant time and financial resources and delay our ability to operate these facilities, which would adversely impact our business, prospects, financial condition and operating results.

# Our business may be adversely affected by changes in regulations applicable to the automotive industry and laser market or concerns that drive further regulation of the automobile and laser market.

Government product safety regulations are an important factor for our business. Historically, these regulations have imposed ever-more stringent safety regulations and reporting requirements for vehicles and laser products. These safety regulations often require, or customers demand that, vehicles have more safety features per vehicle and more advanced safety products.

While we believe increasing automotive and laser safety standards will present a market opportunity for our products, government safety regulations are subject to change based on a number of factors that are not within our control, including new scientific or technological data, adverse publicity regarding the industry recalls and safety risks of autonomous driving and ADAS, accidents involving our products, domestic and foreign political developments or considerations, and litigation relating to our products and our competitors' products. Changes in government regulations, especially in the autonomous driving and ADAS industries, could adversely affect our business. If government priorities shift and we are unable to adapt to changing regulations, our business may be materially and adversely affected.

Federal and local regulators impose more stringent compliance and reporting requirements in response to product recalls and safety issues in the automotive and laser industry. As cars that carry our sensors go into production, the obligations of complying with safety regulations and reporting requirements could increase and it could require increased resources and adversely affect our business.

In addition, as vehicle regulators globally continue to consider new and enhanced emissions requirements, including electrification, to meet environmental and economic needs as well as pursue new safety standards to address emerging traffic risks, OEMs may need to dedicate technology and cost additions to new vehicle designs to meet these emissions and safety requirements and, as a result, postpone the consumer cost pressures of new autonomous and ADAS features.

# Failures, or perceived failures, to comply with privacy, data protection, and information security requirements in the variety of jurisdictions in which we operate may adversely impact our business, and such legal requirements are evolving, uncertain and may require improvements in, or changes to, our policies and operations.

Our current and potential future operations and sales subject us to laws and regulations addressing privacy and the collection, use, storage, disclosure, transfer and protection of a variety of types of data. For example, the European Commission has adopted the General Data Protection Regulation and California recently enacted the California Consumer Privacy Act of 2018, both of which provide for potentially material penalties for non-compliance. These regimes may, among other things, impose data security requirements, disclosure requirements, and restrictions on data collection, uses, and sharing that may impact our operations and the development of our business. While, generally, we do not have access to, collect, store, process, or share information collected by our solutions unless our customers choose to proactively provide such information to us, our products may evolve both to address potential customer requirements or to add new features and functionality. Therefore, the full impact of these privacy regimes on our business is rapidly evolving across jurisdictions and remains uncertain at this time.

We may also be affected by cyber-attacks and other means of gaining unauthorized access to our products, systems, and data. For instance, cyber criminals or insiders may target us or third parties with which we have business relationships to obtain data, or in a manner that disrupts our operations or compromises our products or the systems into which our products are integrated.

We are assessing the continually evolving privacy and data security regimes and measures we believe are appropriate in response. Since these data security regimes are evolving, uncertain and complex, especially for a global business like ours, we may need to update or enhance our compliance measures as our products, markets and customer demands further develop, and



these updates or enhancements may require implementation costs. In addition, we may not be able to monitor and react to all developments in a timely manner. The compliance measures we do adopt may prove ineffective. Any failure, or perceived failure, by us to comply with current and future regulatory or customer-driven privacy, data protection, and information security requirements, or to prevent or mitigate security breaches, cyber-attacks, or improper access to, use of, or disclosure of data, or any security issues or cyber-attacks affecting us, could result in significant liability, costs (including the costs of mitigation and recovery), and a material loss of revenue resulting from the adverse impact on our reputation and brand, loss of proprietary information addata, disruption to our business and relationships, and diminished ability to retain or attract customers and business partners. Such events may result in governmental enforcement actions and prosecutions, private litigation, fines and penalties or adverse publicity, and could cause customers and business.

# Regulations related to conflict minerals may cause us to incur additional expenses and could limit the supply and increase the costs of certain metals used in the manufacturing of our products.

We are subject to the requirements under the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010, or the Dodd-Frank Act, that will require us to determine, disclose and report whether our products contain conflict minerals. The implementation of these requirements could adversely affect the sourcing, availability and pricing of the materials used in the manufacture of components used in our products. In addition, we will incur additional costs to comply with the disclosure requirements, including costs related to conducting diligence procedures to determine the sources of conflict minerals that may be used in or necessary to the products of our products and, if applicable, potential changes to products, processes or sources of supply as a consequence of such verification activities. It is also possible that our reputation may be adversely affected if we determine that certain of our products contain minerals not determined to be conflict-free or if we are unable to alter our products, processes or sources of supply to avoid use of such materials.

### **Risks Related to Our Intellectual Property**

Despite the actions we are taking to defend and protect our intellectual property, we may not be able to adequately protect or enforce our intellectual property rights or prevent unauthorized parties from copying or reverse engineering our solutions. Our efforts to protect and enforce our intellectual property rights and prevent third parties from violating our rights may be costly.

The success of our products and our business depends in part on our ability to obtain patents and other intellectual property rights and maintain adequate legal protection for our products in the United States and other international jurisdictions. We rely on a combination of patent, service mark, trademark and trade secret laws, as well as confidentiality procedures and contractual restrictions, to establish and protect our proprietary rights, all of which provide only limited protection.

We cannot be assured that any patents will be issued with respect to our currently pending patent applications or that any trademarks will be registered with respect to our currently pending applications in a manner that gives us adequate defensive protection or competitive advantages, if at all, or that any patents issued to us or any trademarks registered by us will not be challenged, invalidated or circumvented. We have filed for patents and trademarks in the United States and in certain international jurisdictions, but such protections may not be available in all countries in which we operate or in which we seek to enforce our intellectual property rights, or may be difficult to enforce in practice. Our currently-issued patents and trademarks and any patents and trademarks that may be issued or registered, as applicable, in the future with respect to pending or future applications may not provide sufficiently broad protection or may not prove to be enforceable in actions against alleged infringers. We cannot be certain that the steps we have taken will prevent unauthorized use of our technology or the reverse engineering of our technology. Moreover, others may independently develop technologies that are competitive to us or infringe our intellectual property.

Protecting against the unauthorized use of our intellectual property, products and other proprietary rights is expensive and difficult, particularly internationally. We believe that our patents are foundational in the area of lidar products and intends to enforce the intellectual property portfolio we have built over the years. Unauthorized parties may attempt to copy or reverse engineer our lidar technology or certain aspects of our solutions that we consider proprietary. Litigation may be necessary in the future to enforce or defend our intellectual property rights, to prevent unauthorized parties from copying or reverse engineering our solutions, to determine the validity and scope of the proprietary rights of others or to block the importation of infringing products into the United States.

Any such litigation, whether initiated by us or a third party, could result in substantial costs and diversion of management resources, either of which could adversely affect our business, operating results and financial condition. Even if we obtain favorable outcomes in litigation, we may not be able to obtain adequate remedies, especially in the context of unauthorized parties copying or reverse engineering our solutions.



Further, many of our current and potential competitors have the ability to dedicate substantially greater resources to defending intellectual property infringement claims and to enforcing their intellectual property rights than we have. Attempts to enforce our rights against third parties could also provoke these third parties to assert their own intellectual property or other rights against us or result in a holding that invalidates or narrows the scope of our rights, in whole or in part. Effective patent, trademark, service mark, copyright and trade secret protection may not be available in every country in which our products are available and competitors based in other countries may sell infringing products in one or more markets. Failure to adequately protect our intellectual property rights could result in our competitors offering similar products, potentially resulting in the loss of some of our competitive advantage and a decrease in our revenue, which would adversely affect our business, operating results, financial condition and prospects.

# Third-party claims that we are infringing intellectual property, whether successful or not, could subject us to costly and time-consuming litigation or expensive licenses, and our business could be adversely affected.

Although we hold key patents related to our products, a number of companies, both within and outside of the lidar industry, hold other patents covering aspects of lidar products. In addition to these patents, participants in this industry typically also protect their technology, especially embedded software, through copyrights and trade secrets. As a result, there is frequent litigation based on allegations of infringement, misappropriation or other violations of intellectual property rights. We have received, and in the future may receive, inquiries from other intellectual property holders and may become subject to claims that we infringe their intellectual property rights, particularly as we expand our presence in the market, expand to new use cases and face increasing competition. In addition, parties may claim that the names and branding of our products infringe their trademark rights in certain countries or territories. If such a claim were to prevail, we may have to change the names and branding of our products in the affected territories and we could incur other costs.

We currently have a number of agreements in effect pursuant to which we have agreed to defend, indemnify and hold harmless our customers, suppliers, and channel partners and other partners from damages and costs which may arise from the infringement by our products of third-party patents or other intellectual property rights. The scope of these indemnity obligations varies, but may, in some instances, include indemnification for damages and expenses, including attorneys' fees. Our insurance may not cover all intellectual property infringement claims. A claim that our products infringe a third party's intellectual property rights, even if untrue, could adversely affect our relationships with our customers, may deter future customers from purchasing our products and could expose us to costly litigation and settlement expenses. Even if we are not a party to any litigation between a customer and a third party relating to infringement by our products, an adverse outcome in any such litigation could make it more difficult for us to defend our products against intellectual property infringement claims in any subsequent litigation in which we are a named party. Any of these results could adversely affect our brand and operating results.

Our defense of intellectual property rights claims brought against us or our customers, suppliers and channel partners, with or without merit, could be time-consuming, expensive to litigate or settle, divert management resources and attention and force us to acquire intellectual property rights and licenses, which may involve substantial royalty or other payments and may not be available on acceptable terms or at all. Further, a party making such a claim, if successful, could secure a judgment that requires us to pay substantial damages or obtain an injunction. An adverse determination also could invalidate our intellectual property rights and adversely affect our ability to offer our products to our customers and may require that we procure or develop substitute products that do not infringe, which could require significant effort and expense. Any of these events could adversely affect our business, operating results, financial condition and prospects.

# Our intellectual property applications for registration may not issue or be registered, which may have a material adverse effect on our ability to prevent others from commercially exploiting products similar to ours.

We cannot be certain that we are the first inventor of the subject matter to which we have filed a particular patent application, or if we are the first party to file such a patent application. If another party has filed a patent application to the same subject matter as we have, we may not be entitled to the protection sought by the patent application. We also cannot be certain whether the claims included in a patent application will ultimately be allowed in the applicable issued patent. Further, the scope of protection of issued patent claims is often difficult to determine. As a result, we cannot be certain that the patent applications that we file will issue, or that our issued patents will afford protection against competitors with similar technology. In addition, our competitors may design around our issued patents, which may adversely affect our business, prospects, financial condition and operating results.

#### In addition to patented technology, we rely on our unpatented proprietary technology, trade secrets, processes and know-how.

We rely on proprietary information (such as trade secrets, know-how and confidential information) to protect intellectual property that may not be patentable or subject to copyright, trademark, trade dress or service mark protection, or that we believe is best protected by means that do not require public disclosure. We generally seek to protect this proprietary information by



entering into confidentiality agreements, or consulting services or employment agreements that contain non-disclosure and non-use provisions with our employees, consultants, contractors and third parties. However, we may fail to enter into the necessary agreements, and even if entered into, these agreements may be breached or may otherwise fail to prevent disclosure, third-party infringement or misappropriation of our proprietary information, may be limited as to their term and may not provide an adequate remedy in the event of unauthorized disclosure or use of proprietary information. We have limited control over the protection of trade secrets used by our current or future manufacturing partners and suppliers and could lose future trade secret protection if any unauthorized disclosure of such information occurs. In addition, our proprietary information may otherwise become known or be independently developed by our competitors or other third parties. To the extent that our employees, consultants, contractors, advisors and other third parties use intellectual property owned by others in their work for us, disputes may arise as to the rights in related or resulting know-how and inventions. Costly and time-consuming litigation could be necessary to enforce and determine the scope of our proprietary rights, and failure to obtain or maintain protection for our proprietary information could adversely affect our competitive business position. Furthermore, laws regarding trade secret rights in certain markets where we operate may afford little or no protection to our trade secrets.

We also rely on physical and electronic security measures to protect our proprietary information, but we cannot provide assurance that these security measures will not be breached or provide adequate protection for our property. There is a risk that third parties may obtain and improperly utilize our proprietary information to our competitive disadvantage. We may not be able to detect or prevent the unauthorized use of such information or take appropriate and timely steps to enforce our intellectual property rights.

#### We may be subject to damages resulting from claims that we or our employees have wrongfully used or disclosed alleged trade secrets of our employees' former employers.

We may be subject to claims that we or our employees have inadvertently or otherwise used or disclosed trade secrets or other proprietary information of an employee's former employers. Litigation may be necessary to defend against these claims. If we fail in defending such claims, in addition to paying monetary damages, we may lose valuable intellectual property rights or personnel. A loss of key personnel or their work product could hamper or prevent our ability to commercialize our products, which could severely harm our business. Even if we are successful in defending against these claims, litigation could result in substantial costs and demand on management resources.

# We use certain software and data governed by open-source licenses, which under certain circumstances could adversely affect our business, results of operations and financial condition.

Certain of our software and data, as well as that of our customers and vendors, may be derived from or otherwise incorporate so-called "open source" software and data that is generally made available to the public by its authors and/or other third parties. Some open-source software is made available under licenses that impose certain obligations on us regarding modifications or derivative works we create based upon the open-source software. These obligations may require us to make source code for the derivative works available to the public and/or license such derivative works under a particular type of license, rather than the forms of license we customarily use to protect our intellectual property. Additionally, if we combine our proprietary software with open-source software in certain manners we could be required to release the source code of our proprietary software or to make our proprietary software available under open-source licenses to third parties at little or no cost or on unfavorable license terms. In the event that the copyright holder of, or other third party that distributes, open-source software alleges that we have not complied with the terms of an open-source license, we could incur significant legal costs defending ourselves against such allegations. If such claims are successful, we could be subject to significant damages, required to release the source code that we developed using that open-source software to the public, enjoined from distributing our software and/or required to take other actions that could adversely affect our business, results of operations and financial condition.

While we take steps to monitor the use of open-source software in our solutions, processes and technology and try to ensure that no open-source software is used in such a way as to require us to disclose the source code to the related product, processes, or technology when we do not wish to do so, such use could inadvertently occur. Additionally, if a third-party software provider has incorporated certain types of open source software into software we license from such third party for our solutions, processes, or technology, we could, under certain circumstances, be required to disclose the source code to our solutions, processes, or technology. This could harm our intellectual property position and adversely affect our business, results of operations and financial condition.

Further, the use of open-source software can lead to vulnerabilities that may make our software susceptible to attack, and although some open-source vendors provide warranty and support agreements, it is common for such software to be available "as is" with no warranty, indemnity, or support. Although we monitor our use of such open-source code to avoid subjecting our solutions to unintended conditions, such use, under certain circumstances, could materially adversely affect our business, financial condition and operating results and cash flow, including if we are required to take remedial action that may divert resources away from our development efforts.



## **Risks Related to Ownership of Our Shares**

# Our Second Amended and Restated Certificate of Incorporation provides, subject to limited exceptions, that the Court of Chancery of the State of Delaware (the "Chancery Court") will be the sole and exclusive forum for certain stockholder litigation matters, which could limit our stockholders' ability to obtain a chosen judicial forum for disputes with us or our directors, officers, employees or stockholders.

Our Second Amended and Restated Certificate of Incorporation requires, to the fullest extent permitted by law, that derivative actions brought in our name, actions against directors, officers and employees for breach of fiduciary duty and other similar actions may be brought in the Chancery Court or, if that court lacks subject matter jurisdiction, another federal or state court situated in the State of Delaware. Any person or entity purchasing or otherwise acquiring any interest in shares of our capital stock will be deemed to have notice of and consented to the forum provisions in our Second Amended and Restated Certificate of Incorporation. In addition, our Second Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws provide that the federal district courts of the United States shall be the exclusive forum for the resolution of any suit brought to enforce a duty or liability created by the Securities Act or the Exchange Act or any other claim for which the U.S. federal courts have exclusive jurisdiction. The Second Amended and Restated Certificate of Incorporation of an alternative forum, to the fullest extent permitted by law, the federal district courts of the United States of America will be the exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act.

In March 2020, the Delaware Supreme Court issued a decision in *Salzburg et al. v. Sciabacucchi*, which found that an exclusive forum provision providing for claims under the Securities Act to be brought in federal court is facially valid under Delaware law. We intend to enforce this forum provision, but we do not know whether courts in other jurisdictions will agree with this decision or enforce it.

The choice of forum providing that a state or federal court located within the state of Delaware will be the exclusive forum for substantially all disputes between us and our stockholders may limit a stockholder's ability to bring a claim in a judicial forum of its choosing for disputes with us or any of our directors, officers, other employees or stockholders, which may discourage lawsuits with respect to such claims. If any other court were to find the choice of forum provision contained in our Second Amended and Restated Certificate of Incorporation to be inapplicable or unenforceable in an action, we may incur additional costs associated with resolving such action in other jurisdictions, which could harm our business, operating results and financial condition.

#### Our charter documents and Delaware law could prevent a takeover that stockholders consider favorable and could also reduce the market price of our stock.

Our Second Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws contain provisions that could delay or prevent a change in control. These provisions could also make it more difficult for stockholders to elect directors and take other corporate actions. These provisions include:

- providing for a classified board of directors with staggered, three-year terms;
- authorizing our Board to issue Preferred Stock with voting or other rights or preferences that could discourage a takeover attempt or delay changes in control;
- prohibiting cumulative voting in the election of directors;
- providing that vacancies on our Board may be filled only by a majority of directors then in office, even though less than a quorum;
- prohibiting the adoption, amendment or repeal of the Amended and Restated Bylaws or the repeal of the provisions of our Second Amended and Restated Certificate
  of Incorporation regarding the election and removal of directors without the required approval of at least two-thirds of the shares entitled to vote at an election of
  directors;
- prohibiting stockholder action by written consent;
- limiting the persons who may call special meetings of stockholders; and
- requiring advance notification of stockholder nominations and proposals.

These provisions may frustrate or prevent any attempts by our stockholders to replace or remove our current management by making it more difficult for stockholders to replace members of our Board, which is responsible for appointing the members of our management. In addition, we are governed by the provisions of Section 203 of the Delaware General Corporation Law (the "DGCL"). These provisions may prohibit large stockholders, in particular those owning 15% or more of our outstanding voting stock, from merging or combining with us for a certain period of time without the consent of our Board.

These and other provisions in our Second Amended and Restated Certificate of Incorporation and our Amended and Restated Bylaws and under Delaware law could discourage potential takeover attempts, reduce the price investors might be willing to pay in the future for shares of Class A common stock and result in the market price of Class A common stock being lower than it would be without these provisions.

# Claims for indemnification by our directors and officers may reduce our available funds to satisfy successful third-party claims against us and may reduce the amount of money available to us.

Our Second Amended and Restated Certificate of Incorporation and Amended and Restated Bylaws provide that we will indemnify our directors and officers, in each case to the fullest extent permitted by Delaware law.

In addition, as permitted by Section 145 of the DGCL, the Amended and Restated Bylaws and the indemnification agreements that we have entered into with our directors and officers provide that:

- we will indemnify our directors and officers for serving us in those capacities or for serving other business enterprises at our request, to the fullest extent permitted by Delaware law. Delaware law provides that a corporation may indemnify such person if such person acted in good faith and in a manner such person reasonably believed to be in or not opposed to the best interests of the registrant and, with respect to any criminal proceeding, had no reasonable cause to believe such person's conduct was unlawful;
- we may, in our discretion, indemnify employees and agents in those circumstances where indemnification is permitted by applicable law;
- we will be required to advance expenses, as incurred, to our directors and officers in connection with defending a proceeding, except that such directors or officers shall undertake to repay such advances if we are ultimately determined that such person is not entitled to indemnification;
- we will not be obligated pursuant to our Amended and Restated Bylaws to indemnify a person with respect to proceedings initiated by that person against us or our other indemnitees, except with respect to proceedings authorized by our Board or brought to enforce a right to indemnification;
- the rights conferred in the Amended and Restated Bylaws are not exclusive, and we are authorized to enter into indemnification agreements with our directors, officers, employees and agents and to obtain insurance to indemnify such persons; and
- we may not retroactively amend our Amended and Restated Bylaw provisions to reduce our indemnification obligations to directors, officers, employees and agents.

# The dual class structure of our Common Stock has the effect of concentrating voting control with Austin Russell, our Founder, President and Chief Executive Officer. This will limit or preclude your ability to influence corporate matters, including the outcome of important transactions, including a change in control.

Shares of our Class B common stock, \$0.0001 par value per share ("Class B common stock"), have 10 votes per share, while shares of Class A common stock have one vote per share. Austin Russell, our Founder, President and Chief Executive Officer, holds all of the issued and outstanding shares of Class B common stock. Accordingly, Mr. Russell held approximately 78.3% of the voting power of our outstanding capital stock as of December 31, 2022 and will be able to control matters submitted to our stockholders for approval, including the election of directors, amendments of our organizational documents and any merger, consolidation, sale of all or substantially all of our assets or other major corporate transactions. Mr. Russell may have interests that differ from the interests of other stockholders of the Company and may vote in a way with which other stockholders of the Company disagree and which may be adverse to other stockholders' interests. This concentrated control may have the effect of delaying, preventing or deterring a change in control of us, could deprive our stockholders of an opportunity to receive a premium for their capital stock as part of a sale of us, and might ultimately affect the market price of shares of Class A common stock.

In connection with the execution of the Merger Agreement, Austin Russell entered into a voting agreement, dated as of August 24, 2020, with Gores (the "Voting Agreement"). Under the Voting Agreement, Mr. Russell agreed that, following the consummation of the prior business combination between Legacy Luminar and Gores Metropoulos, Inc., solely if he is involuntarily terminated from his position as the Chief Executive Officer of the Company as a result of his conviction of, or pleading guilty or nolo contendere to, a felony that has a material negative impact on the Company, at any meeting of the stockholders of the Company at which directors are to be elected following the consummation of the Business Combination, Mr. Russell, or any of his permitted successors or assigns, will not vote more than 10% of the Class B common stock he or they beneficially own in any director election.

# We are a controlled company within the meaning of The Nasdaq Stock Market listing standards, and, as a result, qualify for exemptions from certain corporate governance requirements that provide protection to stockholders of other companies. To the extent we utilize any of these exemptions, you will not have the same protections afforded to stockholders of companies that are subject to such requirements. We do not currently intend to rely on the exemptions afforded to controlled companies at this time.

So long as more than 50% of the voting power for the election of our directors is held by an individual, a group or another company, we will qualify as a "controlled company" under The Nasdaq Stock Market listing requirements. Austin Russell controls a majority of the voting power of our outstanding capital stock. As a result, we are a "controlled company" under the Nasdaq Stock Market rules. As a controlled company, we are exempt from certain Nasdaq corporate governance requirements, including those that would otherwise require our Board to have a majority of independent directors and require that we establish a compensation committee comprised entirely of independent directors, or otherwise ensure that the compensation of our executive officers and nominees for directors are determined or recommended to our Board by the independent members of our Board. While we do not currently rely on any of these exemptions, we will be entitled to do so for as long as we are considered a "controlled company," and to the extent we rely on one or more of these exemptions, holders of our capital stock will not have the same protections afforded to stockholders of companies that are subject to all of Nasdaq's corporate governance requirements.

### Our dual class structure may depress the trading price of the Class A common stock.

Our dual class structure may result in a lower or more volatile market price of the Class A common stock or in adverse publicity or other adverse consequences due to disfavor of a dual class structure by certain organizations. For example, certain index providers have announced restrictions on including companies with multiple-class share structures in certain of their indexes. S&P Dow Jones and FTSE Russell had previously announced changes to their eligibility criteria for inclusion of shares of public companies on certain indices, including the S&P 500, pursuant to which companies with multiple classes of shares of our common stock are excluded. In addition, several stockholder advisory firms have policies that oppose the use of multiple class structures. As a result, the dual class structure of our Common Stock may cause stockholder advisory firms to publish negative commentary about our corporate governance practices or otherwise seek to cause us to change our capital structure. Any such exclusion from indices or any actions or publications by stockholder advisory firms critical of our corporate governance practices or capital structure could adversely affect the value and trading market of the Class A common stock.

### The market price and trading volume of Class A common stock is volatile and could decline significantly.

The market price of our Class A common stock has been and is expected to continue to be volatile and has recently experienced declines. In addition, the trading volume of our Class A common stock may fluctuate and cause significant price variations to occur. We cannot assure you that the market price of Class A common stock will not fluctuate widely or decline significantly in the future in response to a number of factors, including, among others, the following:

- the realization of any of the risk factors presented in this Annual Report;
- actual or anticipated differences in our estimates, or in the estimates of analysts, for our revenues, Adjusted EBITDA, results of operations, level of indebtedness, liquidity or financial condition;
- additions and departures of key personnel;
- failure to comply with the requirements of Nasdaq, Sarbanes-Oxley Act or other laws or regulations;
- future issuances, sales, resales or repurchases or anticipated issuances, sales, resales or repurchases, of our securities;
- publication of research reports about us;
- the performance and market valuations of other similar companies;
- commencement of, or involvement in, litigation involving us;
- broad disruptions in the financial markets, including sudden disruptions in the credit markets;
- speculation in the press or investment community;
- actual, potential or perceived control, accounting or reporting problems;
- changes in accounting principles, policies and guidelines; and
- other events or factors, including those resulting from infectious diseases, health epidemics and pandemics (including the ongoing COVID-19 public health emergency), natural disasters, war, acts of terrorism or responses to these events.



In the past, securities class-action litigation has often been instituted against companies following periods of volatility in the market price of their shares. This type of litigation could result in substantial costs and divert our management's attention and resources, which could have a material adverse effect on us.

# If securities or industry analysts do not publish or cease publishing research or reports about us, our business, or our market, or if they change their recommendations regarding our Class A common stock adversely, then the price and trading volume of our Class A common stock could decline.

The trading market for our Class A common stock will be influenced by the research and reports that industry or securities analysts may publish about us, our business, our market, or our competitors. Securities and industry analysts do not currently, and may never, publish research on us. If no securities or industry analysts commence coverage of us, our stock price and trading volume would likely be negatively impacted. If any of the analysts who may cover us change their recommendation regarding our stock adversely, or provide more favorable relative recommendations about our competitors, the price of our Class A common stock would likely decline. If any analyst who may cover us were to cease coverage of us or fail to regularly publish reports on us, we could lose visibility in the financial markets, which could cause our stock price or trading volume to decline.

## Future issuances of debt securities and equity securities, including from the exercise of warrants for our Class A common stock, and issuances to customers, vendors or partners, may adversely affect us, including the market price of the Class A common stock and may be dilutive to existing stockholders.

In the future, we may require additional capital to respond to technological advancements, competitive dynamics or technologies, customer demands, business opportunities, challenges, acquisitions or unforeseen circumstances and we may determine to engage in equity or debt financings or enter into credit facilities for other reasons. Securities and agreements involving the issuance of debt will generally rank senior to the Class A common stock and have priority upon liquidation. Such securities also may be governed by an indenture or other instrument containing covenants restricting the Company's operating flexibility. Additionally, any equity securities or convertible or exchangeable securities that we issue in the future may have rights, preferences and privileges more favorable than those of the Class A common stock. In addition, in order to further business relationships with current or potential customers, vendors or partners, we may issue equity or equity-linked securities to such current or potential customers, vendors or partners. Because our decision to issue debt or equity in the future will depend on market conditions and other factors beyond our control, we cannot predict or estimate the amount, timing, nature or success of our future capital raising efforts. Sales of shares of Class A common stock in the public market or the perception that these sales or conversions might occur may depress the market price of Class A common stock and could impair our ability to raise capital through the sale of additional equity securities.

In addition, as of December 31, 2022, we had warrants to purchase an aggregate of 5.8 million shares of our Class A common stock outstanding. To the extent remaining warrants are exercised, additional shares of Class A common stock will be issued, which will result in dilution to the then-existing holders of Class A common stock and increase the number of shares eligible for resale in the public market. Sales of substantial numbers of such shares in the public market or the fact that such warrants may be exercised could adversely affect the market price of our Class A common stock.

#### Our failure to meet the continued listing requirements of Nasdaq could result in a delisting of our securities.

If we fail to satisfy the continued listing requirements of Nasdaq such as the corporate governance requirements or the minimum closing bid price requirement, Nasdaq may take steps to delist our securities. Such a delisting would likely have a negative effect on the price of the securities and would impair the ability of stockholders to sell or purchase their securities. In the event of a delisting, we can provide no assurance that any action taken by us to restore compliance with listing requirements would allow our securities to become listed again, stabilize the market price or improve the liquidity of our securities, prevent our securities from dropping below the Nasdaq minimum bid price requirement or prevent future non-compliance with Nasdaq's listing requirements. Additionally, if our securities are not listed on, or become delisted from, Nasdaq for any reason, and are quoted on an inter-dealer automated quotation system for equity securities that is not a national securities exchange, the liquidity and price of our securities may be more limited than if we were quoted or listed on Nasdaq or another national securities exchange. You may be unable to sell your securities unless a market can be established or sustained.

#### **Risks Related to Our Indebtedness**

# Our indebtedness and liabilities could limit the cash flow available for our operations, expose us to risks that could adversely affect our business, financial condition and results of operations and impair our ability to satisfy our obligations under the notes.

As of December 31, 2022, our total consolidated indebtedness was \$612.2 million, representing the Convertible Senior Notes, net of unamortized debt discount and issuance costs, finance leases and certain secured equipment loans. We may also



incur additional indebtedness to meet future financing needs. Our indebtedness could have significant negative consequences for our security holders and our business, results of operations and financial condition by, among other things:

- increasing our vulnerability to adverse economic and industry conditions;
- limiting our ability to obtain additional financing;
- requiring the dedication of a substantial portion of our cash flow from operations to service our indebtedness, which will reduce the amount of cash available for other purposes;
- limiting our flexibility to plan for, or react to, changes in our business;
- diluting the interests of our existing stockholders as a result of issuing shares of our Class A common stock upon conversion of the notes; and
- placing us at a possible competitive disadvantage with competitors that are less leveraged than us or have better access to capital.

Our business may not generate sufficient funds, and we may otherwise be unable to maintain sufficient cash reserves, to pay amounts due under our indebtedness, including the notes, and our cash needs may increase in the future. In addition, any future indebtedness that we may incur may contain, financial and other restrictive covenants that limit our ability to operate our business, raise capital or make payments under our other indebtedness. If we fail to comply with these covenants or to make payments under our indebtedness when due, then we would be in default under that indebtedness, which could, in turn, result in that and our other indebtedness becoming immediately payable in full.

# We may be unable to raise the funds necessary to repurchase the notes for cash following a fundamental change, or to pay any cash amounts due upon conversion, and our other indebtedness may limit our ability to repurchase the notes or pay cash upon their conversion.

Noteholders may, subject to a limited exception, require us to repurchase their notes following a fundamental change at a cash repurchase price generally equal to the principal amount of the notes to be repurchased, plus accrued and unpaid interest, if any. In addition, upon conversion, we will satisfy part or all of our conversion obligation in cash unless we elect to settle conversions solely in shares of our Class A common stock. We may not have enough available cash or be able to obtain financing at the time we are required to repurchase the notes or pay any cash amounts due upon conversion. In addition, applicable law, regulatory authorities and the agreements governing any future indebtedness may restrict our ability to repurchase the notes or pay any cash amounts due upon conversion. Our failure to repurchase notes or to pay any cash amounts due upon conversion or when otherwise required will constitute a default under the indenture. A default under the indenture or the fundamental change itself could also lead to a default under agreements governing other indebtedness which we have incurred or may incur, which may result in that other indebtedness becoming immediately payable in full. We may not have sufficient funds to satisfy all amounts due under the other indebtedness and the notes.

#### The accounting method for the notes could adversely affect our reported financial condition and results.

In August 2020, the Financial Accounting Standards Board published an Accounting Standards Update, which we refer to as ASU 2020-06, to reduce the number of accounting models for convertible debt instruments. We early adopted ASU 2020-06, effective January 1, 2021. The elimination of the separate accounting described above to reduce the interest expense that we have recognized and expect to recognize in the future for the notes for accounting purposes. Under ASU 2020-06, the embedded conversion features are no longer separated from the host contract for convertible instruments with conversion features that are not required to be accounted for as derivatives under Topic 815, or that do not result in substantial premiums accounted for as agaid-in capital. Consequently, the notes are accounted for as a single liability measured at amortized cost. Further, ASU 2020-06 eliminates the use of the treasury stock method for convertible instruments that can be settled in whole or in part with equity, and instead requires application of the "if-converted" method. Under that method, diluted earnings per share would generally be calculated assuming that all the notes were converted solely into shares of Class A common stock at the beginning of the reporting period, unless the result would be anti-dilutive. The application of the if-converted method may reduce our reported diluted earnings per share.

Furthermore, if any of the conditions to the convertibility of the notes is satisfied, then we may be required under applicable accounting standards to reclassify the liability carrying value of the notes as a current, rather than a long-term, liability. This reclassification could be required even if no noteholders convert their notes and could materially reduce our reported working capital.

### The capped call transactions may affect the value of the notes and our Class A common stock.

In connection with the Convertible Senior Notes, we entered into privately negotiated capped call transactions with the option counterparties. The capped call transactions are expected generally to reduce the potential dilution to our Class A



common stock upon any conversion of the notes and/or offset any potential cash payments we are required to make in excess of the principal amount of converted notes, as the case may be, with such reduction and/or offset subject to a cap.

We have been advised that, in connection with establishing their initial hedges of the capped call transactions, the option counterparties or their respective affiliates entered into various derivative transactions with respect to our Class A common stock and/or purchased shares of our Class A common stock.

In addition, the option counterparties and/or their respective affiliates may modify their hedge positions by entering into or unwinding various derivatives with respect to our Class A common stock and/or purchasing or selling our Class A common stock or other securities of ours in secondary market transactions following the pricing of the notes and from time to time prior to the maturity of the notes (and are likely to do so following any conversion of the notes, any repurchase of the notes by us on any fundamental change repurchase date, any redemption date or any other date on which the notes are retired by us, in each case if we exercise the relevant election to terminate the corresponding portion of the capped call transactions). This activity could also cause or avoid an increase or a decrease in the market price of our Class A common stock.

# We are subject to counterparty risk with respect to the capped call transactions and an accelerated share repurchase program (the "ASR program"), and the capped call transactions and ASR program may not operate as planned.

The option counterparties are, and the ASR counterparty will be, financial institutions, and we will be subject to the risk that they might default under the capped call transactions or the ASR program. Our exposure to the credit risk of the option counterparties or ASR counterparty will not be secured by any collateral. Global economic conditions have from time to time resulted in the actual or perceived failure or financial difficulties of many financial institutions, including the bankruptcy filing by Lehman Brothers Holdings Inc. and its various affiliates. If an option counterparty or ASR counterparty becomes subject to insolvency proceedings, we will become an unsecured creditor in those proceedings with a claim equal to our exposure at that time under our transactions with that option counterparty or the ASR counterparty. Our exposure will depend on many factors, but, generally, the increase in our exposure will be correlated with increases in the market price or the volatility of our Class A common stock. In addition, upon a default by an option counterparty or the ASR counterparty, we may suffer more dilution than we currently anticipate with respect to our Class A common stock. We can provide no assurances as to the financial stability or viability of any option counterparty or ASR counterparty.

In addition, the capped call transactions are complex, and they may not operate as planned. For example, the terms of the capped call transactions may be subject to adjustment, modification or, in some cases, renegotiation if certain corporate or other transactions occur. Accordingly, these transactions may not operate as we intend if we are required to adjust their terms as a result of transactions in the future or upon unanticipated developments that may adversely affect the functioning of the capped call transactions.

### **General Risks**

# Unanticipated changes in effective tax rates or adverse outcomes resulting from examination of our income or other tax returns could adversely affect our financial condition and results of operations.

We will be subject to income taxes in the United States and other jurisdictions, and our tax liabilities will be subject to the allocation of expenses in differing jurisdictions. Our future effective tax rates could be subject to volatility or adversely affected by a number of factors, including:

- changes in the valuation of our deferred tax assets and liabilities;
- expected timing and amount of the release of any tax valuation allowances;
- tax effects of stock-based compensation;
- costs related to intercompany restructurings;
- changes in tax laws, regulations or interpretations thereof;
- changes in accounting and tax standards or practices;
- changes in the composition of operating income by the taxing jurisdiction; or
- lower than anticipated future earnings in jurisdictions where we have lower statutory tax rates and higher than anticipated future earnings in jurisdictions where we have higher statutory tax rates.

In addition, we may be subject to audits of our income, sales and other transaction taxes by taxing authorities. Outcomes from these audits could have an adverse effect on our financial condition and results of operations.

# We are subject to U.S. and foreign anti-corruption and anti-money laundering laws and regulations. We can face criminal liability and other serious consequences for violations, which can harm our business.

We are subject to the U.S. Foreign Corrupt Practices Act of 1977, as amended, the U.S. domestic bribery statute contained in 18 U.S.C. § 201, the U.S. Travel Act, the USA PATRIOT Act and possibly other anti-bribery and anti-money laundering laws in countries in which we conduct activities. Anti-corruption laws are interpreted broadly and prohibit companies and their employees, agents, contractors and other collaborators from authorizing, promising, offering or providing, directly or indirectly, improper payments or anything else of value to recipients in the public or private sector. We can be held liable for the corrupt or other illegal activities of our employees, agents, contractors and other collaborators, even if we do not explicitly authorize or have actual knowledge of such activities. Any violations of the laws and regulations described above may result in substantial civil and criminal fines and penalties, imprisonment, the loss of export or import privileges, debarment, tax reassessments, breach of contract and fraud litigation, reputational harm and other consequences.

On December 22, 2017, the Tax Cuts and Jobs Act of 2017 (the "Tax Act") was signed into law making significant changes to the U.S. Tax Code. In particular, sweeping changes were made to the U.S. taxation of foreign operations. Changes include, but are not limited to, a reduction to the corporate income tax rate, limiting interest deductions, adopting elements of a territorial tax system, assessing a repatriation tax or "toll-charge" on undistributed earnings and profits of U.S.-owned foreign corporations, and introducing certain anti-base erosion provisions, including a new minimum tax on global intangible low-taxed income ("GILTI") and base erosion and anti-abuse tax ("BEAT"). The new legislation did not have a material impact on our provision for income taxes for 2020 and 2019, because we generated net tax losses and offset our deferred tax assets on the balance sheet with a full valuation allowance due to our current loss position and forecasted losses for the near future. The overall impact of this tax reform is uncertain, and our business and financial condition, including with respect to our non-U.S. operations, could be adversely affected.

In addition to the impact of the Tax Act on our federal taxes, the Tax Act may impact our taxation in other jurisdictions, including state income taxes. Additionally, other foreign governing bodies may enact changes to their tax laws in reaction to the Tax Act that could result in changes to our global tax position and materially adversely affect our business, results of operations and financial condition. Additionally, the Internal Revenue Service, (the "IRS") and several foreign tax authorities have increasingly focused attention on intercompany transfer pricing with respect to sales of products and services and the use of intangibles. Tax authorities could disagree with our future intercompany charges, cross-jurisdictional transfer pricing or other matters and assess additional taxes. If we do not prevail in any such disagreements, our profitability may be affected.

## The current conflict between Ukraine and Russia has exacerbated market instability and disrupted the global economy and may adversely affect our business, results of operations and financial condition.

The current conflict between Ukraine and Russia has caused uncertainty about economic and political stability, increasing volatility in the credit and financial markets and disrupting the global economy. The United States, the European Union, and several other countries are imposing far-reaching sanctions and export control restrictions on Russian entities and individuals. These sanctions and export controls may also contribute to higher oil and gas prices and inflation, which could reduce demand in the global automotive sector and therefore reduce demand for our solutions. There is also a risk that Russia launches sanctions and other retaliatory actions. Additional consequences of the conflict may include diminished liquidity and credit availability, declines in consumer confidence, declines in economic growth, and various shortages and supply chain disruptions. While we do not currently directly rely on goods or services sourced in Russia or Ukraine and thus have not experienced any direct disruptions, we may experience indirect disruptions in our supply chain. Any of the foregoing factors, including developments or effects that we cannot yet predict, may adversely affect our business, results of operations and financial condition.

## Our business is subject to the risks of earthquakes, fire, floods and other natural catastrophic events, global pandemics, and interruptions by man-made problems, such as terrorism. Material disruptions of our business or information systems resulting from these events could adversely affect our operating results.

A significant natural disaster, such as an earthquake, fire, flood, hurricane or significant power outage or other similar events, such as infectious disease outbreaks or pandemic events, could have an adverse effect on our business and operating results. One of our offices is located in the San Francisco Bay Area, a region known for seismic activity. In addition, natural disasters, acts of terrorism or war could cause disruptions in our remaining manufacturing operations, our or our customers' or channel partners' businesses, our suppliers' or the economy as a whole. We also rely on information technology systems to communicate among our workforce and with third parties. Any disruption to our communications, whether caused by a natural disaster or by man made problems, such as power disruptions, could adversely affect our business. We do not have a formal disaster recovery plan or policy in place and do not currently require that our suppliers' partners have such plans or policies in place. To the extent that any such disruptions result in delays or cancellations of orders or impede our suppliers' ability to timely deliver product components, or the deployment of our products, our business, operating results and financial condition would be adversely affected.

None.

## ITEM 1B. UNRESOLVED STAFF COMMENTS.

## **ITEM 2. PROPERTIES.**

Our corporate headquarters is located in Orlando, Florida, where we lease a complex of three buildings with 170,294 square feet pursuant to leases that expire between June 2026 and September 2028. The Orlando facilities contain manufacturing, engineering, research and development, and administrative functions. We also lease 25,617 square feet of office and engineering space in two facilities in Palo Alto, California, 12,900 square feet of office and engineering space in a facility in Colorado Springs, Colorado, 7,573 square feet of office and engineering space in a facility in Boston, Massachusetts, and 20,337 square feet of office and engineering space in a facility in Santa Barbara, California. The Company believes its existing facilities are adequate for its current requirements.

## ITEM 3. LEGAL PROCEEDINGS.

From time to time, we may become involved in actions, claims, suits, and other legal proceedings in the ordinary course of our business, including assertions by third parties relating to intellectual property infringement, breaches of contract or warranties or employment-related matters. We are not currently a party to any actions, claims, suits or other legal proceedings the outcome of which, if determined adversely to us, would individually or in the aggregate have a material adverse effect on our business, financial condition and results of operations.

## ITEM 4. MINE SAFETY DISCLOSURES.

Not applicable.

## PART II

# ITEM 5. MARKET FOR THE REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES.

## **Market Information**

Our shares of Class A common stock have traded on the Nasdaq Global Select Market under the symbol "LAZR," since December 3, 2020. Prior to that date, our common stock traded on the Nasdaq Global Select Market under the symbol "GMHI," since March 25, 2019. There is no public trading market for our Class B common stock.

#### Holders

As of February 17, 2023, there were 339 holders of record of our Class A common stock and one holder of record of our Class B common stock. The number of record holders is based upon the actual number of holders registered on our books at such date and does not include holders of shares in street name or persons, partnerships, associations, corporations or other entities identified in security position listings maintained by depository trust companies.

#### **Dividend Policy**

We have never declared or paid any cash dividends on our common stock. We currently intend to retain any future earnings and do not expect to pay any dividends in the foreseeable future. Any future determination to declare cash dividends will be made at the discretion of our board of directors, subject to applicable laws, and will depend on a number of factors, including our financial condition, results of operations, capital requirements, contractual restrictions, including under any future loan facilities, general business conditions and other factors that our board of directors may deem relevant.

#### **Recent Sales of Unregistered Securities**

In connection with our investment in Class A ordinary shares of ECARX Holdings Inc. ("ECARX"), on December 20, 2022, we issued 2,030,374 shares of Class A common stock to ECARX pursuant to a private placement exempt from registration under the Securities Act of 1933, as amended, in reliance on Section 4(a)(2) thereof.

## **Stock Performance Graph**

The graph below compares the cumulative total return on our common stock with that of the NASDAQ Composite Index and the Russell 2000 Index. The period shown commences on December 3, 2020, the date our common stock commenced trading on the Nasdaq Global Select Market, and ends on December 31, 2022. The graph assumes \$100 was invested at the close of market on December 3, 2020 in the common stock of Luminar, the NASDAQ Composite Index and the Russell 2000 Index, and assumes the reinvestment of any dividends. The stock price performance on the following graph is not intended to forecast or be indicative of future stock price performance of our common stock.



This performance graph shall not be deemed "soliciting material" or to be "filed" with the SEC for purposes of Section 18 of the Exchange Act, or otherwise subject to the liabilities under that Section, and shall not be deemed to be incorporated by reference into any filing of Luminar Technologies, Inc. under the Securities Act of 1933, as amended, or the Securities Act of 1934 Exchange, as amended.

\$100 investment in stock or index	12	2/3/2020	12/3	1/2020	0	3/31/2021	(	06/30/2021	09/30/2021	12/31/2021	03/31/2022	06/30/2022	09/30/2022	1	12/31/2022
Luminar Technologies, Inc.	\$	100.00	\$	147.95	\$	105.79	\$	95.52	\$ 67.89	\$ 75.15	\$ 68.02	\$ 25.81	\$ 31.70	\$	21.54
NASDAQ Composite Index		100.00		104.13		107.03		117.18	116.74	127.18	114.89	89.11	85.44		84.56
Russell 2000 Index		100.00		106.82		120.11		124.98	119.24	121.64	111.98	92.39	90.05		95.27

ITEM 6. RESERVED.

## ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS.

The following discussion and analysis provides information that Luminar's management believes is relevant to an assessment and understanding of Luminar's consolidated results of operations and financial condition. The discussion should be read together with "Selected Historical Consolidated Financial and Operating Data of Luminar" and the historical audited annual consolidated financial statements as of and for the years ended December 31, 2022 and 2021, and the related notes thereto, included elsewhere in this Annual Report on Form 10-K. This discussion may contain forward-looking statements based upon Luminar's current expectations, estimates and projections that involve risks and uncertainties. Actual results could differ materially from those anticipated in these forward-looking statements due to, among other considerations, the matters discussed under "Risk Factors" and "Cautionary Note Regarding Forward-Looking Statements." Unless the context otherwise requires, all references in this subsection to "Luminar" refer to the business of Luminar Technologies, Inc., a Delaware corporation, and its subsidiaries prior to the consummation of the Business Combination.

Discussion regarding our financial condition and results of operations for the year ended December 31, 2021 as compared to the year ended December 31, 2020 is included in Item 7 of our Annual Report on Form 10-K for the fiscal year ended December 31, 2021, filed with the SEC on March 1, 2022.

#### Overview

We are a global automotive technology company ushering a new era of vehicle safety and autonomy. We are enabling solutions for series production passenger cars and commercial trucks as well as other targeted markets.

We have built a new type of lidar sensor which we believe meets the demanding performance, safety, and cost requirements for autonomous vehicles in production, while also enabling Advanced Driving Assistance Systems ("ADAS").

Our lidar hardware and software products help set the standard for safety in the industry, and are designed to enable accurate and reliable detections of some of the most challenging "edge cases" autonomous vehicles can encounter on a regular basis. This is achieved by advancing existing lidar range and resolution to new levels, ensuring hard-to-see objects like a tire on the road ahead or a child that runs into the street are not missed, as well as by developing our software to interpret the data needed to inform autonomous and assisted driving decisions.

### **Business Combinations**

#### **Solfice Assets Purchase**

On June 15, 2022, we completed our purchase of certain assets from Solfice Research, Inc. ("Solfice"). These assets are expected to advance our software development capabilities. The transaction was determined to be an asset acquisition under ASC 805, Business Combinations, with substantially all of the fair value attributable to acquired technology.

## **Freedom Photonics Acquisition**

On April 13, 2022, we completed our acquisition of Freedom Photonics LLC ("Freedom Photonics"), a designer and manufacturer of high-performance lasers and related photonic products. The Freedom Photonics acquisition is expected to help us secure intellectual property and the supply of a key enabling component as part of our vertical integration strategy.

#### **Optogration Acquisition**

On August 3, 2021, we completed our acquisition of Optogration, Inc. ("Optogration"). The Optogration acquisition helps us secure intellectual property and supply of Indium Gallium Arsenide ("InGaAs") photodetector semiconductor chips, which are used to convert optical power into an electrical current. The acquisition of Optogration is part of our vertical integration strategy, which will secure supply of a key component of our sensor technology.

#### **Reverse Merger with Gores**

On December 2, 2020 (the "Closing Date"), we merged with Gores Metropoulos, Inc. ("Gores"), at which time First Merger Sub, a newly formed subsidiary of Gores, merged with and into Luminar Technologies, Inc. (the "Company" or "Luminar"), with Luminar being the surviving corporation (the "First Merger"). Immediately following the consummation of the First Merger and as part of the same overall transaction as the First Merger, Luminar, merged with and into Dawn Merger Sub II, LLC ("Second Merger Sub"), a newly formed subsidiary of Gores, with Second Merger Sub continuing as the surviving entity (the "Second Merger" and, in combination with the First Merger and the other related transactions, the "Business Combination"). Luminar was deemed the accounting predecessor and the post-combination Company is the successor SEC registrant, which means that Luminar's financial statements for previous periods will be disclosed in our future periodic reports



filed with the SEC, as appropriate. The Business Combination was accounted for as a reverse recapitalization. Under this method of accounting, Gores was treated as the acquired company for financial statement reporting purposes.

## **COVID-19 Impact**

The coronavirus (COVID-19) pandemic has adversely affected our and some of our customers' business operations. The extent of the continued impact of the coronavirus pandemic on our operational and financial performance will depend on various future developments, including the duration and spread of the outbreak, including the emergence of variants, and impact on our customers, suppliers, and employees, all of which is uncertain at this time. We expect the coronavirus (COVID-19) pandemic to adversely impact our business, including product development and industrialization initiatives, timing of shipment of products and provision of services to customers, supply chain, and may impact our financial position and results of operations. We are unable to predict at this time the potential adverse impact. For more information on our operations and risks related to health epidemics, including the COVID-19 pandemic, see Item 1A. Risk Factors in this Form 10-K.

#### **Basis of Presentation**

Our consolidated financial statements include the accounts of our wholly-owned subsidiaries. We have eliminated intercompany accounts and transactions.

### **Components of Results of Operations**

#### Revenue

Our business and revenue producing activities are organized in two operating segments: (i) Autonomy Solutions and (ii) Advanced Technologies and Services ("ATS").

The Autonomy Solutions segment is engaged in design, manufacturing, and sale of lidar sensors catering mainly to the OEMs in the automobile, commercial vehicle, robotaxi and adjacent industries. The Autonomy Solutions segment revenue also includes fees earned from non-recurring engineering services provided to customers in connection with customization of our sensor and software products, as well as revenue generated from licensing of certain information.

The ATS segment provides advanced semiconductors and related components, as well as design, test and consulting services to the Autonomy Solutions segment and to various third-party customers, including government agencies and defense contractors, in markets generally unrelated to autonomous vehicles.

Revenue is recognized when control of the promised goods or services is transferred to our customers, in an amount that reflects the consideration we expect to be entitled to in exchange for those goods or services. Fixed fee arrangements are satisfied over time and utilize the input method based on costs incurred. Accordingly, revenue for fixed fee arrangements is recognized on a percentage of completion basis. Certain customer contracts are also structured as time and materials and billed at cost of time incurred plus a markup. Such time and material contracts are recognized over time.

Two customers accounted for 21%, and 17% of our revenue for the year ended December 31, 2022. Two customers accounted for 42% and 17% of our revenue for the year ended December 31, 2021. One customer accounted for 64% of our revenue for the year ended December 31, 2020.

### Cost of sales and gross profit (loss)

Cost of sales includes the fixed and variable manufacturing cost of our lidar sensors, which primarily consists of personnel-related costs including certain engineering personnel and stock-based compensation and material purchases from third-party contract manufacturers and suppliers which are directly associated with our manufacturing process. Cost of sales includes cost of providing services to customers, depreciation and amortization for manufacturing fixed assets or equipment, cost of components, product testing and launch-related costs, an allocated portion of overhead, facility and information technology ("IT") costs, write downs for excess and obsolete inventory and shipping costs.

The ATS segment provides certain services and components to the Autonomy Solutions segment which are recorded as cost of goods sold or research and development costs depending on the nature and use of such services and components by the Autonomy Solutions segment. These inter-segment transactions are eliminated in the consolidated results.

Gross profit (loss) equals revenue less cost of sales.

### **Operating Expenses**

#### Research and Development (R&D)

R&D costs are expensed as incurred. Design and development costs for products to be sold under long-term supply arrangements are expensed as incurred. Design and development costs for molds, dies, and other tools involved in developing new technology are expensed as incurred.



Our R&D efforts are focused on enhancing and developing additional functionality for our existing products and on new product development, including new releases and upgrades to our lidar sensors and integrated software solutions. R&D expenses consist primarily of:

- Personnel-related expenses, including salaries, benefits, and stock-based compensation expense, for personnel in our research and engineering functions;
- Expenses related to materials, software licenses, supplies and third-party services;
- Prototype expenses; and
- An allocated portion of facility and IT costs and depreciation.

The ATS segment provides certain services and components to the Autonomy Solutions segment which are recorded as cost of goods sold or research and development costs depending on the nature and use of such services and components by the Autonomy Solutions segment. These inter-segment transactions are eliminated in our consolidated results. We expect our R&D costs to increase for the foreseeable future as we continue to invest in research and development activities to achieve our product roadmap, and we expect to continue to incur operating losses for at least the foreseeable future due to continued R&D investments.

### Sales and Marketing Expenses

Sales and marketing expenses consist of personnel and personnel-related expenses, including stock-based compensation of our business development team, as well as advertising and marketing expenses. These include the cost of marketing programs, trade shows, promotional materials, demonstration equipment, an allocated portion of facility and IT costs and depreciation.

We expect to increase our sales and marketing activities, mainly in order to continue to build out our geographic presence to be closer to our partners and better serve them. We also expect that our sales and marketing expenses will increase over time as we continue to hire additional personnel to scale our business.

## General and Administrative Expenses

General and administrative expenses consist of personnel and personnel-related expenses, including stock-based compensation of our executive, finance, human resources, information systems and legal departments as well as legal and accounting fees for professional and contract services.

We expect our general and administrative expenses to increase for the foreseeable future as we scale headcount with the growth of our business, and as a result of operating as a public company, including compliance with the rules and regulations of the SEC, legal, audit, additional insurance expenses, investor relations activities, and other administrative and professional services.

#### Change in Fair Value of Warrants

The warrant liabilities are classified as marked-to-market liabilities and the corresponding increase or decrease in value is reflected in change in fair value of warrants.

## Interest Income and Other, and Interest Expense and Other

Interest income and other consists primarily of income earned on our cash equivalents and marketable securities. These amounts will vary based on our cash, cash equivalents and marketable securities balances, and also with market rates. It also includes realized gains and losses related to the marketable securities, as well as impact of gains and losses related to foreign exchange transactions, and impairment of investments and certain other assets. Interest expense and other consisted primarily of interest on convertible senior notes issued in December 2021, finance leases and interest on our senior secured term loan facility, which was repaid upon consummation of the Business Combination.



## **Results of Operations**

## Comparison of the Years Ended December 31, 2022 and 2021

The results of operations presented below should be reviewed in conjunction with the consolidated financial statements and notes included elsewhere in this report. The following table sets forth our consolidated results of operations data for the periods presented (in thousands):

	Year Ended	Decembe	r 31,	Change	Change
	 2022		2021	\$	%
Revenue	\$ 40,698	\$	31,944	\$ 8,754	27 %
Cost of sales	100,983		46,092	54,891	119 %
Gross loss	 (60,285)		(14,148)	(46,137)	326 %
Operating Expenses:					
Research and development	185,283		88,861	96,422	109 %
Sales and marketing	38,672		17,858	20,814	117 %
General and administrative	158,162		93,685	64,477	69 %
Total operating expenses	382,117		200,404	181,713	91 %
Loss from operations	 (442,402)		(214,552)	(227,850)	106 %
Other income (expense), net:					
Change in fair value of warrants	9,222		(26,126)	35,348	(135)%
Impairment of investments and certain other assets	(6,016)		—	(6,016)	nm
Interest expense and other	(11,095)		(2,028)	(9,067)	447 %
Interest income and other	 5,024		3,458	1,566	45 %
Total other income (expense), net	 (2,865)		(24,696)	21,831	(88)%
Loss before provision for (benefit from) income taxes	 (445,267)		(239,248)	(206,019)	86 %
Provision for (benefit from) income taxes	672		(1,262)	1,934	nm
Net loss	\$ (445,939)	\$	(237,986)	\$ (207,953)	87 %

#### Revenue

The following table sets forth a breakdown of our revenue by our segments for the periods presented (in thousands):

	Year Ended Decen	1ber 31,
	2022	2021
Revenue from sales to external customers:		
Autonomy Solutions	\$ 24,353 \$	28,497
ATS	16,345	3,447
Total	\$ 40,698 \$	31,944

The increase in revenue of our ATS segment in 2022 compared to 2021 was primarily driven by the Optogration and Freedom Photonics acquisitions. The decrease in revenue of our Autonomy Solutions segment in 2022 compared to 2021 was primarily due to a decrease in revenue from non-recurring engineering services as certain projects were completed or approached completion, offset by an increase in sales of sensors and licensing of certain of our intellectual property.

#### Cost of Sales

The \$54.9 million increase in our cost of sales in 2022 compared to 2021, was primarily due to costs associated with industrialization of Iris as we approach closer to series production readiness, increase in sales of sensors, accrual for loss on certain NRE arrangements and impairment of inventory.

## **Operating Expenses**

## Research and Development

The \$96.4 million increase in research and development expenses in 2022 compared to 2021 was primarily due:

\$35.8 million increase in personnel-related costs driven mainly by increased headcount and increased stock-based compensation expense;



- \$34.7 million increased contractor fees and external spend in relation to continued development and testing of our sensor and in-development software products, as well as development activities related to advanced manufacturing; and
- \$15.5 million increase due to spend on data labeling services and investments in ongoing software development.

### Sales and Marketing

The \$20.8 million increase in sales and marketing expenses for 2022 compared to 2021 was primarily due:

- a \$14.4 million increase in personnel related costs including stock-based compensation costs due to increase in headcount; and
- a \$5.1 million increase in marketing expenses related to trade shows and presentations in auto industry conventions as well as increased outside consultants costs related to business development activities.

## General and Administrative

The \$64.5 million increase in general and administrative expenses for 2022 compared to 2021 was primarily due to:

- a \$58.2 million increase in personnel costs including stock-based compensation costs, driven mainly by increased headcount;
- a \$4.9 million increase in legal and other costs associated with our M&A activity during the year including Freedom Photonics, Solfice etc.; and
- a \$2.3 million increase in travel related costs due to easing of pandemic related travel restrictions.

#### Change in Fair Value of Warrant Liabilities

The change in fair value of warrant liabilities is a non-cash benefit or charge due to the corresponding decrease or increase in the estimated fair value of public and private warrants assumed in connection with the Business Combination.

## Impairment of investments and certain other assets

Impairment of investments and certain other assets in 2022 primarily related to an impairment charge of \$6.0 million related to our investment in Robotic Research OpCo, LLC.

### Segment Operating Loss

Segment profit or loss is defined as income or loss before taxes. Our segment loss breakdown is as follows (in thousands):

	Year Ended Decem	ber 31,	Change	Change
	 2022	2021	\$	%
Segment operating loss				
Autonomy Solutions	\$ (412,673) \$	(214,133) \$	(198,540)	93 %
ATS	(29,394)	(324)	(29,070)	8972 %

## Liquidity and Capital Resources

### Sources of Liquidity and Capital Requirements

Our capital requirements will depend on many factors, including volume, the timing and extent of spending to support R&D efforts, investments in manufacturing equipment and facilities, the expansion of sales and marketing activities, market adoption of new and enhanced products and features, and investments in information technology systems. Until we can generate sufficient revenue from sale of products and services to cover our operating expenses, working capital, and capital expenditures, we expect our cash, cash equivalents and marketable securities, and proceeds from debt and/or equity financings to fund our cash needs. If we are required to raise additional funds by issuing equity securities, dilution to stockholders would result. Any equity securities may have rights, preferences or privileges senior to those of holders of our common stock. If we raise funds by issuing debt securities, these debt securities may have rights, preferences and privileges senior to those of holders of our common stock. The terms of debt securities or borrowings could impose significant restrictions on our operations. The credit market and financial services industry have in the past, and may in the future, experience periods of uncertainty that could impact the availability and cost of equity and debt financing.

We expect to continue to invest in our product and software development as well as incur efforts to build customer relations and markets. Further, we expect to invest in developing advanced manufacturing capabilities, both, internally as well as with our contract manufacturing partners. For example, in January 2022, we executed an arrangement with Celestica



committing approximately \$26.9 million for purchase of capital equipment as well as engineering efforts related to manufacturing process. We expect to fund these product and business development initiatives, and capital expenditures either through our cash, cash equivalents and marketable securities or through issuance of shares of our Class A common stock ("Stock-in-lieu of Cash Program").

As of December 31, 2022, we had cash and cash equivalents totaling \$69.6 million and marketable securities of \$419.3 million, totaling \$488.9 million of total liquidity. To date, our principal sources of liquidity have been proceeds received from issuances of debt and equity. Market and economic conditions, such as increase in interest rates by federal agencies, may materially impact relative cost and mix of these sources of liquidity.

To date, we have not generated positive cash flows from operating activities and have incurred significant losses from operations in the past as reflected in our accumulated deficit of \$1.3 billion as of December 31, 2022. We expect to continue to incur operating losses for at least the foreseeable future due to continued R&D investments that we intend to make in our business and, as a result, we may require additional capital resources to grow our business. We believe that current cash, cash equivalents, and marketable securities will be sufficient to continue to execute our business strategy in the next 12 months and until we expect to begin series production.

#### **Cash Flow Summary**

The following table summarizes Luminar's cash flows for the periods presented:

	Year ended December 31,			
	2022	2021		
Net cash provided by (used in):				
Operating activities	\$ (208,232) \$	(148,421)		
Investing activities	27,986	(194,188)		
Financing activities	(79,351)	463,592		

#### **Operating** Activities

Net cash used in operating activities was \$208.2 million during the year ended December 31, 2022. Net cash used in operating activities was due to our net loss of \$445.9 million adjusted for non-cash items of \$225.3 million, primarily consisting of \$162.4 million of stock-based compensation, \$41.5 million of vendor payments in stock in lieu of cash, \$12.2 million of inventory write-offs and write-downs, \$9.2 million of change in fair value of warrant liabilities, \$6.6 million of depreciation and amortization, and \$6.0 million of investments and certain other assets, offset by cash provided by operating assets and liabilities of \$5.9 million due to the timing of cash receipts from customers and cash payments to vendors.

### Investing Activities

Net cash provided by in investing activities of \$28.0 million in 2022 comprised of \$367.4 million and \$88.0 million, respectively, of cash proceeds from maturities and sales or redemptions of marketable securities, offset primarily by \$404.6 million related to purchases of marketable securities and \$15.6 million in capital expenditures.

#### Financing Activities

Net cash used in financing activities of \$79.4 million in 2022 primarily related to \$80.9 million of cash paid for repurchases of shares of Class A common stock and \$3.7 million of cash paid for employee taxes related to stock-based awards, offset by \$4.0 million of cash received from exercises of stock options and \$1.3 million of proceeds from sale of Class A common stock under our employee stock purchase plan.

### **Critical Accounting Policies and Estimates**

We prepare our consolidated financial statements in accordance with generally accepted accounting principles in the United States ("GAAP"). The preparation of these consolidated financial statements requires us to make estimates, assumptions and judgments that can significantly impact the amounts we report as assets, liabilities, revenue, costs and expenses and the related disclosures. We base our estimates on historical experience and other assumptions that we believe are reasonable under the circumstances. Our actual results could differ significantly from these estimates under different assumptions and conditions. We believe that the accounting policies and estimates discussed below are critical to understanding our historical and future performance as these policies involve a greater degree of judgment and complexity.

#### Revenue

Revenue from product sales is recognized upon transfer of control of promised products. Revenue for service projects is recognized as services are performed and amounts are earned in accordance with the terms of a contract. Revenue is recognized in an amount that reflects the consideration that we expect to receive in exchange for those products and services.

Revenues related to NRE projects are recognized over time using the cost input method. In using this input method, we generally apply the cost-to-cost method of accounting where sales and profits are recorded based on the ratio of costs incurred to estimated total costs at completion. Recognition of profit on the NRE contracts requires estimates of the total contract value, the total cost at completion, and the measurement of progress towards completion. During the year ended December 31, 2022, we recorded \$19.2 million in cost of sales (services) estimated contract losses expected to be incurred on NRE projects with certain customers. Estimated contract losses in the year ended December 31, 2021 and 2020 were not material. The estimated contract losses recorded in 2022 were primarily a result of (a) changes in estimates to costs expected to be incurred for contractual milestones based on actual experience on similar projects and (b) changes in scope of project deliverables agreed upon with the respective customers during the year. Significant judgment is required when estimating total contract costs and progress to completion on the arrangements, as well as whether a loss is expected to be incurred on the contract. In estimating total contract costs, we are also required to estimate the effort expected to be incurred to complete a NRE project. These estimates are subject to significant estimation uncertainty as actual time and effort incurred on completing a NRE project or actual rates of either internal or contracted personnel working on such NRE projects may differ from our estimates. If circumstances arise that change the original estimates of revenues, costs, or extent of progress toward completion, revisions to the estimates are made. These revisions may result in increases or decreases in estimated revenues or costs, and such revisions are reflected in income in the period in which the circumstances that gave rise to the revision become known to us. We perform ongoing profitability analysis of our contra

We enter into contracts that can include various combinations of products and services, which are generally capable of being distinct and accounted for as separate performance obligations; however, determining whether products or services are considered distinct performance obligations that should be accounted for separately versus together may sometimes require significant judgment. Transaction price is allocated to each performance obligation on a relative standalone selling price ("SSP") basis. Judgment is required to determine SSP for each distinct performance obligation. We use a range of sales prices from actual sales to customers to estimate SSP when products and services are sold separately. In instances where SSP is not directly observable, we determine SSP using information that may include other observable inputs available to it.

Changes in judgments with respect to these assumptions and estimates could impact the timing or amount of revenue recognition.

#### **Recent Accounting Pronouncements**

See Note 2 in Item 8. of this Form 10-K for information related to recent accounting pronouncements.

## ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK.

We are exposed to various market risks, which may result in potential losses arising from adverse changes in market rates, such as interest rates and foreign exchange rates. We do not enter into derivatives or other financial instruments for trading or speculative purposes and do not believe we are exposed to material market risk with respect to our cash, cash equivalents and marketable securities.

Interest Rate Risk. We had cash and cash equivalents, and marketable securities totaling \$488.9 million as of December 31, 2022. Cash equivalents and marketable securities were invested primarily in U.S. treasury securities, commercial paper, corporate bonds, U.S. agency and government sponsored securities, equity investments and assetbacked securities. Our investment policy is focused on the preservation of capital and supporting our liquidity needs. Under the policy, we invest in highly rated securities, while limiting the amount of credit exposure to any one issuer other than the U.S. government. We do not invest in financial instruments for trading or speculative purposes, nor do we use leveraged financial instruments. We utilize external investment managers who adhere to the guidelines of our investment policy. A hypothetical 100 basis point change in interest rates is not expected to have a material impact on the value of our cash and cash equivalents or marketable investments.

As of December 31, 2022, the principal amount outstanding of our Convertible Senior Notes was \$625.0 million. The fair value of the Convertible Senior Notes is subject to interest rate risk, market risk and other factors due to their conversion features. The fair value of the Convertible Senior Notes will generally increase or decrease as our common stock price increases or decreases. The interest and market value changes affect the fair value of the Convertible Senior Notes but do not impact our financial position, cash flows or results of operations due to the fixed nature of the debt obligations. We carry the Convertible Senior Notes at face value less unamortized discount on our consolidated balance sheets.



Our Convertible Senior Notes bear fixed interest rate, and therefore, are not subject to interest rate risk. We have not utilized derivative financial instruments, derivative commodity instruments or other market risk sensitive instruments, positions or transactions in any material fashion, except for the privately negotiated capped call transactions entered into in December 2021 related to the issuance of our Convertible Senior Notes.

*Foreign Currency Exchange Risk.* Our results of operations and cash flows are subject to fluctuations due to changes in foreign currency exchange rates. Currently, all of our revenue is generated in U.S. dollars. Our expenses are generally denominated in the currencies of the jurisdictions in which we conduct our operations, which are primarily in the U.S. and in Europe. Luminar's results of operations and cash flows in the future may be adversely affected due to an expansion of non-U.S. dollar denominated contracts, growth of its international entities, and changes in foreign exchange rates. The effect of a hypothetical 10% change in foreign currency exchange rates applicable to our business would not have a material impact on our historical or current consolidated financial statements. To date, we have not engaged in any hedging strategies. As our international operations grow, we will continue to reassess our approach to manage the risk relating to fluctuations in currency rates.

## ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA.

## LUMINAR TECHNOLOGIES, INC. INDEX TO THE CONSOLIDATED FINANCIAL STATEMENTS

Report of Independent Registered Public Accounting Firm (Deloitte & Touche LLP, San Jose, CA, PCAOB ID No. 34)	<u>49</u>
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## REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the stockholders and the Board of Directors of Luminar Technologies, Inc.

## **Opinion on the Financial Statements**

We have audited the accompanying consolidated balance sheets of Luminar Technologies, Inc. and subsidiaries (the "Company") as of December 31, 2022 and 2021, the related consolidated statements of operations and comprehensive loss, convertible preferred stock and stockholders' equity (deficit), and cash flows, for each of the three years in the period ended December 31, 2022, and the related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2022 and 2021, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2022, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the Company's internal control over financial reporting as of December 31, 2022, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 28, 2023, expressed an unqualified opinion on the Company's internal control over financial reporting.

## **Basis for Opinion**

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

#### **Critical Audit Matter**

The critical audit matter communicated below is a matter arising from the current-period audit of the financial statements that was communicated or required to be communicated to the audit committee and that (1) relates to accounts or disclosures that are material to the financial statements and (2) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

## Revenue — Non-recurring Engineering ("NRE") services — Refer to Notes 2 and 4 to the financial statements

## Critical Audit Matter Description

The Company recognizes revenue from non-recurring engineering services under fixed fee arrangements ("NRE services") to integrate Luminar lidar hardware for autonomy in vehicle platforms. NRE services are recognized over time using an input method based on contract costs incurred to date compared to total estimated contract costs. The accounting for these contracts involves judgment, particularly as it relates to estimating total contract costs.

Given the judgments necessary to determine total estimated contract costs used to recognize revenue for NRE services, auditing such estimates required extensive audit effort due to the high degree of auditor judgment required when performing audit procedures and evaluating the results of those procedures.

How the Critical Audit Matter Was Addressed in the Audit

Our audit procedures related to management's estimates of total contract costs used to recognize revenue for NRE services included the following, among others:

- We tested the effectiveness of controls over long-term engineering services contract revenue, including management's controls over the total estimated contract costs.
- · We selected a sample of NRE service contracts and performed the following:

- Evaluated the estimates of total contract costs by:
  - Inquiring with management to obtain an understanding of its key inputs and assumptions used to determine total cost estimates.
  - Evaluating management's ability to achieve the estimates of total cost by performing corroborating inquiries with the Company's project managers and engineers.
  - Comparing inputs and assumptions to management's work plans, engineering specifications, supplier contracts, and payroll data.
  - Assessing management's ability to estimate total costs accurately by comparing actual costs to management's historical estimates for performance obligations that have been fulfilled.
  - Testing the mathematical accuracy of management's calculation of estimated total contract cost.

/s/ Deloitte & Touche LLP

San Jose, California February 28, 2023

We have served as the Company's auditor since 2020.

## LUMINAR TECHNOLOGIES, INC. AND SUBSIDIARIES Consolidated Balance Sheets (In thousands, except share and per share data)

SETS	 2022	
SETS	 2022	2021
SE15		
irrent assets:		
Cash and cash equivalents	\$ 69,552	\$ 329,977
Restricted cash	1,553	725
Marketable securities (including \$0 and \$12,200 with a related party as of December 31, 2022 and 2021, see Note 17)	419,314	462,141
Accounts receivable	11,172	13,013
Inventory	8,792	10,342
Prepaid expenses and other current assets	44,203	29,195
tal current assets	 554,586	 845,393
operty and equipment, net	30,260	11,009
perating lease right-of-use assets	21,244	9,145
angible assets, net	22,077	2,424
oodwill	18,816	3,110
her non-current assets	40,344	12,455
tal assets	\$ 687,327	\$ 883,536
ABILITIES AND STOCKHOLDERS' EQUITY (DEFICIT)		
rrrent liabilities:		
Accounts payable	\$ 18,626	\$ 14,419
Accrued and other current liabilities	52,962	19,844
Operating lease liabilities	 5,953	 4,735
tal current liabilities	77,541	38,998
arrant liabilities	3,005	31,230
nvertible senior notes	612,192	608,957
erating lease liabilities, non-current	16,989	5,768
her non-current liabilities	 4,005	598
tal liabilities	 713,732	 685,551
mmitments and contingencies (see Note 15)		
ockholders' equity (deficit):		
eferred stock, \$0.0001 par value; 10,000,000 shares authorized, no shares issued and outstanding as of December 31, 2022 and 2021	—	—
ass A common stock, \$0.0001 par value; 715,000,000 shares authorized, 291,942,087 shares issued, 270,078,637 shares outstanding as of December 31, 22; 715,000,000 shares authorized, 266,076,525 shares issued, 250,812,764 outstanding as of December 31, 2021	29	27
ass B common stock, \$0.0001 par value; 121,000,000 shares authorized, 97,088,670 shares issued and outstanding as of December 31, 2022 and 2021	10	10
lditional paid-in capital	1,558,685	1,257,214
cumulated other comprehensive loss	(4,226)	(908)
easury stock, at cost, 21,863,450 and 15,263,761 shares as of December 31, 2022 and 2021, respectively	(312,477)	(235,871)
cumulated deficit	(1,268,426)	(822,487)
tal stockholders' equity (deficit)	 (26,405)	 197,985
tal liabilities and stockholders' equity (deficit)	\$ 687,327	\$ 883,536

The accompanying notes are an integral part of these consolidated financial statements.

## LUMINAR TECHNOLOGIES, INC. AND SUBSIDIARIES Consolidated Statements of Operations and Comprehensive Loss (In thousands, except share and per share data)

	Year Ended December 31,						
	 2022		2021		2020		
Revenue:							
Products	\$ 18,492	\$	10,118	\$	4,840		
Services	 22,206		21,826		9,111		
Total revenue	40,698		31,944		13,951		
Cost of sales:							
Products	61,985		23,484		15,097		
Services	38,998		22,608		9,855		
Total cost of sales	 100,983		46,092		24,952		
Gross loss	 (60,285)		(14,148)		(11,001)		
Operating expenses:							
Research and development	185,283		88,861		38,651		
Sales and marketing	38,672		17,858		7,948		
General and administrative	158,162		93,685		29,275		
Total operating expenses	 382,117		200,404		75,874		
Loss from operations	 (442,402)		(214,552)		(86,875)		
Other income (expense), net:							
Change in fair value of warrant liabilities	9,222		(26,126)		(268,266)		
Impairment of investments and certain other assets	(6,016)		_		_		
Loss on extinguishment of debt	_		_		(3,996)		
Interest expense and other	(11,095)		(2,028)		(2,885)		
Interest income and other	5,024		3,458		(276)		
Total other income (expense), net	 (2,865)		(24,696)		(275,423)		
Loss before provision for (benefit from) income taxes	 (445,267)		(239,248)		(362,298)		
Provision for (benefit from) income taxes	672		(1,262)		_		
Net loss	\$ (445,939)	\$	(237,986)	\$	(362,298)		
Net loss attributable to common stockholders	\$ (445,939)	\$	(237,986)	\$	(369,055)		
Net loss per share attributable to common stockholders:							
Basic and diluted	\$ (1.25)	\$	(0.69)	\$	(2.54)		
Shares used in computing net loss per share attributable to common stockholders:							
Basic and diluted	356,265,774		346,300,975		145,096,996		
Comprehensive Loss:							
Net loss	\$ (445,939)	\$	(237,986)	\$	(362,298)		
Net unrealized gains (losses) on available-for-sale debt securities	(3,318)		(942)		35		
Comprehensive loss	\$ (449,257)	\$	(238,928)	\$	(362,263)		

The accompanying notes are an integral part of these consolidated financial statements.

## LUMINAR TECHNOLOGIES, INC. AND SUBSIDIARIES Consolidated Statements of Convertible Preferred Stock and Stockholders' Equity (Deficit) (In thousands, except share data)

	Series A Co Preferred	nvertible I Stock	Series X Co Preferred	nvertible I Stock	Founders Co Preferred	nvertible	Class Common	A	Class Common		Additional Paid-in	Accumulated Other Comprehensive	Treasury	Accumulated	Total Stockholders' Equity
	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount	Capital	Income Loss	Stock	Deficit	(Deficit)
Balance as of December 31, 2019	94,818,151	244,743	_	_	26,206,837	3	139,635,890	14	_	_	10,457	(1)	_	(222,203)	(211,730)
Issuance of Series X convertible preferred stock for cash, net of issuance costs of \$5,790	_	_	18,457,230	178,074	_	_	_	_	_	_	_	_	_	_	_
Retirement of Class A shares	_	_	_	_	_	_	(6,629,372)	(1)	_	_	_	_	_	_	(1)
Conversion of certain shares into Class B common stock	_	_	_	_	(22,935,413)	(3)	(82,182,790)	(8)	105,118,203	11	3,000	_	_	_	3,000
Merger recapitalization- Class A	(94,818,151)	(244,743)	(18,457,230)	(178,074)	(3,271,424)	_	116,546,805	12	_	_	422,802	_	_	_	422,814
Public and Private Warrants	—	_	_	_	_	_	_	_	_	_	(102,396)	—	_	—	(102,396)
Issuance of Class A common stock upon exercise of warrants	_	_	_	_	_	_	1,466,155	_	_	_	30,112	_	_	_	30,112
Gores shares recapitalized, net of redemptions and equity issuance costs of \$17,226	_	_	_	_	_	_	49,981,349	5	_	_	363,455	_	_		363,460
Share-based compensation	_	_	_	_	_	_	_	_	_	_	5,745	_	_	_	5,745
Other comprehensive income	_	_	_	_	_	_	_	_	_	_	_	35	_	_	35
Net loss	_	_	—	_	_	_	_	_	_	_	_	_	_	(362,298)	(362,298)
Balance as of December 31, 2020	_	s —	_	s —	_	s —	218,818,037	\$ 22	105,118,203	\$ 11	\$ 733,175	\$ 34	\$ _	\$ (584,501)	\$ 148,741
Purchases of capped call options related to the convertible senior notes	_	_	_	_	_	_	_	_	_	_	(73,438)	_	_	_	(73,438)
Shares repurchased	_	_	_	_	_	_	_	—	_	—	_	_	(235,871)	_	
Issuance of Class A common stock upon exercise of Public and Private Warrants	_	_	_	_	_	_	15,574,037	2	_	_	492,219	_	_	_	492,221
Issuance of Class A common stock upon exercise of stock options and vesting of							6 000 744				(17)				6.176
restricted stock units Retirement of unvested restricted common stock	_	_				_	5,232,744 (71,894)	_		_	6,176	_	_	_	6,176
Vendor payments under the stock-in-lieu of cash program	_	_	_	_	_	_	291,940	_	_	_	10,743	_	_	_	10,743
Acquisition of Optogration, Inc.	_	_	_	_	_	_	370,034	_	_	_	6,527	_	_	_	6,527
Issuance of earn-out shares	_	_	_	_	_	_	10,242,703	1	6,970,467	1	(2)	_	_	_	_
Issuance of shares for investment in Robotic Research Opco, LLC	_	_	_	_	_	_	618,924	_	_	_	10,002	_	_	_	10,002

	Series A Convertible Preferred Stock			Convertible ed Stock	Founders C Preferre		Class A Common S		Class Class		Additional Paid-in	Accumulated Other Comprehensive	Treasury	Accumulated	Total Stockholders' Equity
	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount	Shares	Amount	Capital	Income Loss	Stock	Deficit	(Deficit)
Conversion of Class B common stock into Class A common stock	_	_	_	_	_	_	15,000,000	2	(15,000,000)	(2)	_	_	_	_	_
Share-based compensation	_	_	_	_	_	_	_	_	_	_	70,983	_	_	_	70,983
Expense related to Volvo Warrants	_	_	_	_	_	_	_	_	_	_	959	_	_	_	959
Payments of employee taxes related to vested restricted stock units	_	_	_	_	_	_	_	_	_	_	(140)	_	_	_	(140)
Cash received from Gores on settlement of recapitalization of escrow	_	_	_	_		_	_	_	_	_	10	_		_	10
Other comprehensive loss	_	_	_	_	_	_	_	_	_	_	_	(942)	_	_	(942)
Net loss	_	_	_	-	_	_	_	_	_	_	_	_	_	(237,986)	(237,986)
Balance as of December 31, 2021	_				_		266,076,525	27	97,088,670	10	1,257,214	(908)	(235,871)	(822,487)	197,985
Shares repurchased	_	_	_	_	_	_	_	_		_			(76,606)		(76,606)
Issuance of Class A common stock upon exercise of Private Warrants	_	_	_	_	_	_	405,752	_	_	_	19,003	_	_	_	19,003
Issuance of Class A common stock upon exercise of stock options and vesting of restricted stock units	_	_	_	_	_	_	9,177,748	1	_	_	3,944	_	_	_	3,945
Issuance of Class A common stock under ESPP	_	_	_	_		_	168,147	_	_	_	1,271	_	_		1,271
Retirement of unvested restricted common stock	_	_	_	_	_	_	(48,298)	_	_	_	_	_	_	_	_
Vendor payments under the stock-in-lieu of cash program	_	_	_	_	_	_	9,949,385	1	_	_	80,254	_	_	_	80,255
Investment in ECARX Holdings, Inc.	_	_	_	_	_	_	2,030,374	_	_	_	12,588	_	_	_	12,588
Optogration milestone awards	—	—	—	—	_	—	1,632,056	_	—	_	11,751	—	_	—	11,751
Acquisition of Freedom Photonics LLC	_	_	_	_	_	_	2,176,205	_	_	_	30,510	_	_	_	30,510
Acquisition of certain assets from Solfice Research, Inc.	_	_	_	_	_	_	374,193	_	_	_	3,361	_	_	_	3,361
Share-based compensation	—	—	_	-	—	_	_	—	_	_	142,519	_	_	_	142,519
Payments of employee taxes related to stock-based awards	_	_	_	_	_	_	_	_	_	_	(3,730)	_	_	_	(3,730)
Other comprehensive loss	_	_	_	_	_	_	_	_	_	_	_	(3,318)	_	—	(3,318)
Net loss	_	_	_	_	-	_	_	_	_	_	_	_	_	(445,939)	(445,939)
Balance as of December 31, 2022	_	\$ _		\$ _	<u> </u>	s —	291,942,087	\$ 29	97,088,670	\$ 10	\$ 1,558,685	\$ (4,226)	\$ (312,477)	\$ (1,268,426)	\$ (26,405)

The accompanying notes are an integral part of these consolidated financial statements.

## LUMINAR TECHNOLOGIES, INC. AND SUBSIDIARIES Consolidated Statements of Cash Flows (In thousands)

(In thousands)		Ye	ar Ended December 31	
	2022		2021	2020
Cash flows from operating activities:				
Net loss	\$ (445	5,939)	\$ (237,986) \$	\$ (362,298)
Adjustments to reconcile net loss to net cash used in operating activities:			1.1.0	
Depreciation and amortization		6,566	4,162	2,517
Amortization of operating lease right-of-use assets		5,237	3,705	
Amortization of premium on marketable securities		1,288	1,792	175
Change in fair value of warrants		9,222)	26,126	268,266
Vendor stock-in-lieu of cash program		1,459	10,817	_
Amortization of debt discount and issuance costs		3,236	_	
Inventory write-offs and write-downs	E	2,154	2,918	4,407
Loss on sale or disposal of property and equipment		_	752	525
Loss on extinguishment of debt		—	-	3,996
Share-based compensation		2,405	77,684	8,711
Impairment of investments and certain other assets	(	5,016		—
Expense related to Volvo Warrants			959	_
Warranty related to sensors	2	2,481	1,538	_
Deferred taxes		232	(1,262)	
Other		—	305	—
Changes in operating assets and liabilities:				
Accounts receivable		5,144	(6,233)	(4,294)
Inventories		),477)	(10,751)	(4,018)
Prepaid expenses and other current assets		5,557)	(24,340)	(2,805)
Other non-current assets	(3	3,289)	(6)	165
Accounts payable	4	5,301	3,838	2,620
Accrued and other current liabilities	11	7,768	3,578	6,693
Other non-current liabilities	(2	2,035)	(6,017)	(302)
Net cash used in operating activities	(208	3,232)	(148,421)	(75,642)
Cash flows from investing activities:				
Acquisition of Freedom Photonics LLC (net of cash acquired)	(2	2,759)	_	_
Acquisition of certain assets from Solfice Research, Inc.	(2	2,001)	—	—
Cash received from acquisition of Optogration, Inc.		—	358	_
Purchases of marketable securities (including \$17,846 and \$16,423 with related parties in 2022 and 2021, respectively, see Note 17)	(404	1,598)	(716,933)	(315,920)
Proceeds from maturities of marketable securities	36	7,367	366,857	16,755
Proceeds from sales/redemptions of marketable securities (including \$24,753 and \$4,396 with related parties in 2022 and 2021, respectively, see Note 17)	88	8,041	161,910	28,974
Proceeds from refundable security deposits		_	_	581
Purchases of property and equipment	(15	5,614)	(6,433)	(2,202)
Disposal of property and equipment		_	53	18
Advances for capital projects and equipment	(2	2,450)	_	_
Net cash provided by (used in) investing activities	2'	7,986	(194,188)	(271,794)
Cash flows from financing activities:				
Proceeds from issuance of convertible senior notes, net of debt discounts of \$15,625		_	609,375	_
Purchases of capped call options		—	(73,438)	_
Cash received from Gores on recapitalization		_	_	380,601
Transaction costs related to merger with Gores		—	_	(17,226)
Proceeds from issuance of Series X convertible preferred stock		_	_	183,865
Issuance cost paid for Series X convertible preferred stock		—	_	(5,790)
Proceeds from the issuance of debt		_	_	32,101
Repayment of debt		_	(112)	(41,190)
Debt prepayment charges		_	(112)	(1,918)
Debt issuance costs		_	_	(361)
Principal payments on finance leases (capital leases prior to adoption of ASC 842)		_	(289)	(222)
Proceeds from exercise of warrants		_	153,927	(222)
			155,727	

	Y	ear Ended December	31,
	2022	2021	2020
Proceeds from exercise of stock options	3,986	5,859	_
Proceeds from sale of Class A common stock under ESPP	1,271	—	_
Payments of employee taxes related to stock-based awards	(3,730)	_	_
Repurchases of common stock and redemption of warrants	(80,878)	(231,600)	(10)
Other financing activities	_	(130)	_
Net cash provided by (used in) financing activities	(79,351)	463,592	529,850
Net increase (decrease) in cash, cash equivalents and restricted cash	(259,597)	120,983	182,414
Beginning cash, cash equivalents and restricted cash	330,702	209,719	27,305
Ending cash, cash equivalents and restricted cash	\$ 71,105	\$ 330,702	\$ 209,719
Supplemental disclosures of cash flow information:			
Cash paid for interest	\$ 7,769	\$ 215	\$ 2,789
Supplemental disclosures of noncash investing and financing activities:			
Issuance of Class A common stock upon exercise of warrants	19,003	338,293	30,112
Conversion of Series A, Series X and Founders' convertible preferred stock into Class A and Class B common stock	_	_	422,813
Issuance of Class A common stock for investment in Robotic Research OpCo, LLC	_	10,002	—
Issuance of Class A common stock to acquire Optogration, Inc.	_	6,527	_
Operating lease right-of-use assets obtained in exchange for lease obligations upon adoption of ASC 842	—	10,849	—
Operating lease right-of-use assets obtained in exchange for lease obligations	16,749	2,876	
Assets acquired under finance leases (capital leases prior to adoption of ASC 842)	_	—	318
Purchases of property and equipment recorded in accounts payable and accrued liabilities	3,870	849	319
Amounts payable for shares repurchased	_	4,273	—
Vendor stock-in-lieu of cash program-advances for capital projects and equipment	28,402	—	—
Investment in ECARX Holdings, Inc.	12,588	—	—

The accompanying notes are an integral part of these consolidated financial statements.

## Note 1. Organization and Description of Business

Luminar Technologies, Inc. and its wholly-owned subsidiaries (the "Company" or "Luminar") was originally incorporated in Delaware on August 28, 2018 under the name Gores Metropoulos, Inc. ("Gores"). The Company was formed for the purpose of effecting a merger, capital stock exchange, asset acquisition, stock purchase, reorganization or similar business combination with one or more businesses. On December 2, 2020, the Company (at such time named Gores Metropoulos, Inc.) consummated the business combination (the "Business Combination") pursuant to the Agreement and Plan of Merger, dated August 24, 2020 with the pre-Business Combination Luminar Technologies, Inc. ("Legacy Luminar"). Legacy Luminar was incorporated in Delaware on March 31, 2015. In connection with the consummation of the Business Combination, the Company changed its name from Gores Metropoulos, Inc. to Luminar Technologies, Inc. The Company's common stock is listed on the NASDAQ under the symbol "LAZR."

Unless the context otherwise requires, the "Company" refers to the combined company and its subsidiaries following the Business Combination, "Gores" refers to the Company prior to the Business Combination and "Legacy Luminar" refers to Luminar Technologies, Inc. prior to the Business Combination. Refer to Note 3 for further discussion of the Business Combination.

The Company is a developer of advanced sensor technologies and software for the autonomous vehicle industry, encompassing Laser Imaging, Detection and Ranging (lidar) technology. The Company manufactures and distributes commercial lidar sensors and certain components for the autonomous vehicle industry. The Company is headquartered in Orlando, Florida and has personnel that conducts the Company's operations from various locations in the United States and internationally including Germany, Sweden, Mexico, China, India and Israel.

#### Note 2. Basis of Presentation and Summary of Significant Accounting Policies

### **Basis of Presentation and Consolidation**

The accompanying consolidated financial statements have been prepared in accordance with generally accepted accounting principles in the United States ("GAAP") and applicable rules and regulations of the Securities and Exchange Commission ("SEC") regarding annual financial reporting. All intercompany transactions and balances have been eliminated in consolidation.

#### **Use of Estimates**

The preparation of consolidated financial statements in conformity with GAAP requires management to make judgments, estimates and assumptions that affect the reported amounts of assets, liabilities, equity, revenues and expenses, and related disclosures. The significant estimates made by management include inventory write-downs, valuation allowance for deferred tax assets, valuation of warrants, fair valuation of assets acquired in mergers and acquisitions including intangible assets, forecasted costs associated with non-recurring engineering ("NRE") services, product warranty reserves, stock-based compensation expense and other loss contingencies. Management periodically evaluates such estimates and they are adjusted prospectively based upon such periodic evaluation. Actual results could differ from those estimates.

## Segment Information

The Company has determined its operating segments using the same indicators which are used to evaluate its performance internally. The Company's business activities are organized in two operating segments:

(i) "Autonomy Solutions" which includes manufacturing and distribution of lidar sensors that measure distance using laser light to generate a 3D map, non-recurring engineering services related to the Company's lidar products, development of software products that enable autonomy capabilities for automotive applications, and licensing of the Company's intellectual property ("IP"). In June 2022, the Company acquired certain assets from Solfice Research, Inc. ("Solfice" or "Civil Maps"). Operations of Civil Maps have been included in the Autonomy Solutions segment.

(ii) "Advanced Technologies and Services ("ATS")" which includes development of application-specific integrated circuits, pixel-based sensors, advanced lasers, as well as designing, testing and providing consulting services for non-standard integrated circuits. In the second quarter of 2022, the Components segment was renamed as ATS. In August 2021 and in April 2022, the Company acquired Optogration, Inc. ("Optogration") and Freedom Photonics LLC ("Freedom Photonics"), respectively. Operations of Optogration and Freedom Photonic have been included in the ATS segment.



#### **Concentration of Credit Risk**

The Company's financial instruments that are exposed to concentrations of credit risk consist primarily of cash and cash equivalents, debt securities and accounts receivable. The Company's deposits exceed federally insured limits. Cash held by the foreign subsidiaries of the Company as of December 31, 2022 and 2021 wasnot material.

The Company's revenue is derived from customers located in the United States and international markets. Three customers accounted for 23%, 27% and 11%, respectively, of the Company's accounts receivable as of December 31, 2022. Two customers accounted for 39% and 31%, respectively, of the Company's accounts receivable as of December 31, 2021.

## **Cash and Cash Equivalents**

The Company's cash and cash equivalents consist of investments with maturities of three months or less at the time of purchase. The Company's cash equivalents include investments in money market funds, U.S. treasury securities and commercial paper.

#### **Restricted Cash**

Restricted cash consists of funds that are contractually restricted as to usage or withdrawal due to legal agreements. The Company determines current or noncurrent classification of restricted cash based on the expected duration of the restriction.

#### **Debt Securities**

The Company's debt securities consist of U.S agency securities and government sponsored securities, U.S. treasury securities, corporate bonds, commercial paper and asset-backed securities. The Company classifies its debt securities as available-for-sale at the time of purchase and reevaluates such designation as of each balance sheet date. The Company considers all debt securities as available for use to support current operations, including those with maturity dates beyond one year and are classified as current assets under marketable securities in the accompanying consolidated balance sheets. Debt securities included in marketable securities on the consolidated balance sheets of securities are carried at fair value, with the unrealized gains and losses reported as a component of accumulated other comprehensive income (loss) ("OCI"). Any realized gains or losses on the sale of debt securities are determined on a specific identification method, and such gains and losses are reflected as a component of other income (expense), net.

The Company reviews the fair value of debt securities and when the fair value of a debt security is below its amortized cost, the amortized cost should be written down to its fair value if (i) it is more likely than not that management will be required to sell the impaired security before recovery of its amortized basis; or (ii) management has the intention to sell the security. If neither of these conditions are met, the Company must determine whether the impairment is due to credit losses. To determine the amount of credit losses, the Company compares the present value of the expected cash flows of the security, derived by taking into account the issuer's credit ratings and remaining payment terms, with its amortized cost basis. The amount of impairment recognized is limited to the excess of the amortized cost over the fair value of the security. An allowance for credit losses for the excess of amortized cost over the expected cash flows is recorded in other income (expense), net on the consolidated statements of operations. Non-credit related impairment losses are recorded in OCI.

#### **Marketable Equity Investments**

The Company holds marketable equity investments over which the Company does not have a controlling interest or significant influence. Marketable equity investments are measured using the quoted prices in active markets with changes recorded in other income (expense), net on the consolidated statement of operations.

### Non-Marketable Equity Investments Measured Using the Measurement Alternative

The Company holds a non-marketable equity investment in a privately held company in which the Company does not own a controlling interest or have significant influence. The investment does not have a readily determinable fair value and the Company has elected the measurement alternative, and consequently, measures the investment at cost less any impairment, adjusted to fair value, if there are observable price changes for an identical or similar investment of the same issuer.

#### Accounts Receivable

Accounts receivables are recorded at the invoiced amount and do not bear interest. The Company reviews the need for an allowance for doubtful accounts quarterly based on historical experience with each customer and the specifics of each customer arrangement. The Company did not have material write-offs in any period presented, and as of December 31, 2022, the



allowance for doubtful accounts was not material. The Company did not record any allowance for doubtful accounts as of December 31, 2021.

### Inventory

The Company values inventory at the lower of cost or net realizable value. The Company determines the cost of inventory using the standard-cost method, which approximates actual costs based on a first-in, first-out method. The Company assesses inventory of slow-moving products for potential impairment, and records write-downs of inventory to cost of sales.

## **Property and Equipment**

Property and equipment are stated at cost less accumulated depreciation and amortization, and are depreciated using the straight-line method over the estimated useful lives of the assets as follows:

Asset Category	Estimated useful lives
Machinery and equipment	1 to 7 years
Computer hardware and software	3 to 5 years
Demonstration fleet and demonstration units	2 to 5 years
Leasehold improvements	Shorter of useful life or lease term
Vehicles	5 years
Furniture and fixtures	7 years

Design and development costs for molds, dies and other tools that will be used in producing the products under a long-term supply arrangement are capitalized as tooling which are included in machinery and equipment. The Company estimates useful lives for these tooling items to range between one to three years. The amount capitalized for tooling as of December 31, 2022 was not material. The Company had not capitalized any amount for tooling as of December 31, 2021. Maintenance and repairs are charged to expense as incurred, and improvements and betterments are capitalized. When assets are retired or otherwise disposed of, the cost and accumulated depreciation and amortization are removed from the consolidated balance sheet and any resulting gain or loss is reflected in the consolidated statements of operations and comprehensive loss in the period realized.

### **Intangible Assets**

Intangible assets, consisting of acquired developed technology, customer relationships, customer backlog, assembled workforce, IPR&D and tradename are carried at cost less accumulated amortization. All intangible assets have been determined to have definite lives and are amortized on a straight-line basis over their estimated remaining economic lives, ranging from one to ten years. Amortization expense related to developed technology is included in cost of sales. Amortization expense related to customer relationships is included in sales and marketing expense. Amortization expense related to tradename is included in general and administrative expense. Intangible assets are reviewed for impairment whenever events or changes in circumstances indicate an asset's carrying value may not be recoverable. There was no impairment of intangible assets experienced during the year ended December 31, 2022 or 2021.

#### Goodwill

The Company records goodwill when the consideration paid in a business combination exceeds the fair value of the net tangible assets and the identified intangible assets acquired. Goodwill is not amortized, but instead is required to be tested for impairment annually and whenever events or changes in circumstances indicate that the carrying value of goodwill may exceed its fair value.

The Company reviews goodwill for impairment annually in its fourth quarter by initially considering qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount, including goodwill, as a basis for determining whether it is necessary to perform a quantitative analysis. If it is determined that it is more likely than not that the fair value of reporting unit is less than its carrying amount, including goodwill, as a basis for determining whether it is necessary to perform a quantitative analysis. If it is determined that it is more likely than not that the fair value of reporting unit is less than its carrying amount, a quantitative analysis is performed to identify goodwill impairment. There was no impairment of goodwill experienced during the year ended December 31, 2022 or 2021.

## Impairment of Long-Lived Assets

The Company reviews long-lived assets for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. When such an event occurs, management determines whether there has been impairment by comparing the anticipated undiscounted future net cash flows to the related asset group's carrying value. If



an asset is considered impaired, the asset is written down to fair value, which is determined based either on discounted cash flows or appraised value, depending on the nature of the asset. There was no impairment experienced of long-lived assets during the years ended December 31, 2022 or 2021.

#### **Convertible Senior Notes**

The Company's convertible senior notes issued in December 2021 are accounted for as a single liability instrument measured at its amortized cost, as no other embedded features require bifurcation and recognition as derivatives.

#### **Product Warranties**

Estimated future warranty costs are accrued and charged to cost of sales in the period that the related revenue is recognized. These estimates are based on historical warranty experience and any known or expected changes in warranty exposure, such as trends of product reliability and costs of repairing and replacing defective products. The Company periodically assesses the adequacy of its recorded warranty liabilities and adjusts the said estimates as necessary.

## **Public and Private Warrants**

As part of Gores' initial public offering on February 5, 2019, Gores issued to third party investors40.0 million units, consisting of one share of Class A common stock of Gores and one-third of one warrant, at a price of \$10.00 per unit. Each whole warrant entitled the holder to purchaseone share of Class A common stock at an exercise price of \$11.50 per share (the "Public Warrants"). Simultaneously with the closing of the IPO, Gores completed the private sale of 6.667 million warrants to Gore's sponsor at a purchase price of \$1.50 per warrant (the "Private Warrants"). Each Private Warrant allows the sponsor to purchaseone share of Class A common stock at \$1.50 per share. Subsequent to the Business Combination, 13,333,309 Public Warrants and 6,666,666 Private Warrants remained outstanding as of December 31, 2020.

The Private Warrants and the shares of common stock issuable upon the exercise of the Private Warrants were not transferable, assignable or salable until after the completion of a Business Combination, subject to certain limited exceptions. Additionally, the Private Warrants are exercisable for cash or on a cashless basis, at the holder's option, and are non-redeemable so long as they are held by the initial purchasers or their permitted transferees. If the Private Warrants are held by someone other than the initial purchasers or their permitted transferees, said Private Warrants will be redeemable by the Company and exercisable by such holders on the same basis as the Public Warrants.

The exercise of the Private Warrants may be settled in cash upon the occurrence of a tender offer or exchange that involves50% or more of the Company's Class A stockholders. Public Warrants contained the same feature. Since not all of the Company's stockholders need to participate in such tender offer or exchange to trigger the potential cash settlement and the Company does not control the occurrence of such an event, the Company concluded that the Public Warrants and Private Warrants do not meet the conditions to be classified in equity per the guidance in ASC 815-40, *Derivatives and Hedging—Contracts in Entity's Own Equity*. Since the Public and Private Warrants meet the definition of a derivative under ASC 815, the Company recorded these warrants as liabilities on the balance sheet at fair value upon the closing of the Business Combination, with subsequent changes in their respective fair values recognized in the consolidated statement of operations and comprehensive loss at each reporting date.

In the first quarter of 2021, 3,589,645 Private Warrants and 13,128,671 Public Warrants were exercised, and the Company received \$153.9 million in cash proceeds from the exercise of these warrants. Pursuant to the terms of the agreements governing the rights of the holders of the Public Warrants, the Company redeemed the remaining unexercised and outstanding 204,638 Public Warrants for a redemption price of \$0.01 per Public Warrant.

The Company had 3,077,021 Private Warrants and no Public Warrants, outstanding as of December 31, 2021.

In January 2022 and April 2022, 1,389,529 and 19,223 Private Warrants, respectively, were exercised on a cashless basis and the Company issued401,365 and 4,387 shares of Class A common stock, respectively, pursuant to the exercises. The Company had 1,668,269 Private Warrants outstanding as of December 31, 2022. These Private Warrants expire on December 2, 2025.

#### **Revenue Recognition**

Under ASC 606, the Company determines revenue recognition through the following steps:

- Identifying the contract, or contracts, with the customer;
- Identifying the performance obligations in the contract;

- Determining the transaction price;
- Allocating the transaction price to performance obligations in the contract; and
- Recognizing revenue when, or as, the Company satisfies performance obligations by transferring the promised goods or services.

#### Nature of Products and Services and Revenue Recognition

The Autonomy Solutions segment derives revenue primarily from (a) product sales of lidar sensors to customers and distributors, (b) NRE services to integrate Luminar lidar hardware for autonomy in vehicle platforms, and (c) licensing of certain IP.

The ATS segment derives revenue primarily from (a) product sales of application-specific integrated circuits, pixel-based sensors and advanced lasers, as well as (b) NRE services for designing and testing non-standard integrated circuits.

Revenue from product sales is recognized at a point in time when control of the goods is transferred to the customer, generally occurring upon shipment or delivery dependent upon the terms of the underlying contract. Certain customer arrangements involve NRE services to design and develop custom prototype products to customers. Revenue from NRE service arrangements is recognized over time.

For NRE services, the Company recognizes revenue over time using an input method based on contract cost incurred to date compared to total estimated contract costs (cost-to-cost). For NRE service projects, the Company contracts with customers based on hourly rates or on a fixed fee basis. For arrangements based on hourly rates, revenue is recognized as services are performed and amounts are earned in accordance with the terms of a contract at estimated collectible amounts. For arrangements based on a fixed fee, revenue is recognized based on the progress or the percentage of completion of the NRE service project. Expenses associated with performance of work may be reimbursed with a markup depending on contractual terms and are included in revenue.

Contract costs related to NRE arrangements are incurred over time, which can be several years, and the estimation of these costs requires management's judgment. Significant judgment is required when estimating total contract costs and progress to completion on the arrangements, as well as whether a loss is expected to be incurred on the contract. In estimating total contract costs, the Company is also required to estimate the effort expected to be incurred to complete a NRE project. These estimates are subject to significant estimation uncertainty as actual time and effort incurred on completing a NRE project or actual rates of either internal or contracted personnel working on such NRE projects may differ from the Company's estimates. Changes in circumstances may change the original estimates of revenues, costs, or extent of progress toward completion, revisions to the estimates are made which may result in increases or decreases in estimated revenues or costs, and such revisions are reflected in income in the period in which the circumstances that gave rise to the revision become known to us. We perform ongoing profitability analysis of our contracts accounted for under this method to determine whether the latest estimates of revenues, costs, and profits require updating. If at any time these estimates indicate that the contract will be unprofitable, the entire estimated loss for the remainder of the contract is recorded immediately.

The Company enters into term-based licenses that provide customers the right to use certain IP available with the Company. Revenue from these licenses is recognized at the point in time at which the customer is able to use and benefit from the licensed information, which is generally upon delivery of the information to the customer or upon commencement of the renewal term.

Amounts billed to customers for shipping and handling are included in revenue. Taxes collected from customers and remitted to governmental authorities are excluded from revenue on the net basis of accounting.

#### Arrangements with Multiple Performance Obligations

When a contract involves multiple performance obligations, the Company accounts for individual products and services separately if the customer can benefit from the product or service on its own or with other resources that are readily available to the customer and the product or service is separately identifiable from other promises in the arrangement. The consideration is allocated between separate performance obligations in proportion to their estimated standalone selling price. The transactions to which the Company had to estimate standalone selling prices and allocate the arrangement consideration to multiple performance obligations were immaterial.

The Company provides standard product warranties for a term of typically up to one year to ensure that its products comply with agreed-upon specifications. Standard warranties are considered to be assurance type warranties and are not accounted for as separate performance obligations. See Product Warranties for accounting policy on standard warranties.



## Other Policies, Judgments and Practical Expedients

*Contract balances.* Contract assets and liabilities represent the differences in the timing of revenue recognition from the receipt of cash from the Company's customers and billings. Contract assets reflect revenue recognized and performance obligations satisfied in advance of customer billing. Contract liabilities relate to payments received in advance of the satisfaction of performance under the contract. Receivable represents right to consideration that is unconditional. Such rights are considered unconditional if only the passage of time is required before payment of that consideration is due.

*Remaining performance obligations.* Revenue allocated to remaining performance obligations represents the transaction price allocated to the performance obligations that are unsatisfied, or partially unsatisfied. It includes unearned revenue and amounts that will be invoiced and recognized as revenue in future periods and does not include contracts where the customer is not committed. The customer is not considered committed where they are able to terminate for convenience without payment of a substantive penalty under the contract. The Company has elected the optional exemption, which allows for the exclusion of the amounts for remaining performance obligations that are part of contracts with an original expected duration of one year or less.

Significant financing component. In certain arrangements, the Company receives payment from a customer either before or after the performance obligation has been satisfied. Typically, the expected timing difference between the payment and satisfaction of performance obligations is one year or less; therefore, the Company applies a practical expedient and does not consider the effects of the time value of money. The Company's contracts with customer prepayment terms do not include a significant financing component because the primary purpose is not to receive or provide financing from or to the customers.

*Contract modifications.* The Company may modify contracts to offer customers additional products or services. Each of the additional products and services are generally considered distinct from those products or services transferred to the customer before the modification. The Company evaluates whether the contract price for the additional products and services reflects the standalone selling price as adjusted for facts and circumstances applicable to that contract. In these cases, the Company accounts for the additional products or services as a separate contract. In other cases where the pricing in the modification does not reflect the standalone selling price as adjusted for facts and circumstances applicable to that contract, the Company accounts on a prospective basis where the remaining goods and services are distinct from the original items and on a cumulative catch-up basis when the remaining goods and services are not distinct from the original items.

Judgments and estimates. Accounting for contracts recognized over time involves the use of various techniques to estimate total contract revenue and costs. Due to uncertainties inherent in the estimation process, it is possible that estimates of costs to complete a performance obligation will be revised in the near term. The Company reviews and updates its contract-related estimates regularly, and records adjustments as needed. For those performance obligations for which revenue is recognized using a cost-to-cost input method, changes in total estimated costs, and related progress towards complete satisfaction of the performance obligation, are recognized on a cumulative catch-up basis in the period in which the revisions to the estimates are made.

#### Cost of Sales

The Company includes all manufacturing and sourcing costs incurred prior to the receipt of finished goods at its distribution facility in cost of sales. The cost of sales principally includes personnel-related costs (including certain engineering personnel), including stock-based compensation, directly associated with the Company's manufacturing organization, direct costs, product costs, purchasing costs, allocation of overhead costs associated with manufacturing operations, inbound freight charges, insurance, inventory write-downs, warranty cost and depreciation and amortization expense associated with the manufacturing and sourcing operations. Cost of sales also includes the direct cost and appropriate allocation of overhead costs involved in execution of service contracts.

### Research and Development (R&D)

R&D expenses consist primarily of personnel-related expenses, consulting and contractor expenses, tooling and prototype materials to the extent no future benefit is expected and allocated overhead costs. Substantially all of the Company's R&D expenses are related to developing new products and services, improving existing products and services, and developing manufacturing processes. R&D expenses are expensed as incurred.

Design and development costs for products to be sold under long-term supply arrangements are expensed as incurred. Design and development costs for molds, dies, and other tools involved in new technologies are expensed as incurred. Design and development costs for molds, dies, and other tools that will be used in producing the products under a long-term supply arrangement are capitalized as part of the molds, dies, and other tools.



## **Stock-based Compensation**

#### Employee awards

For equity classified awards, the Company measures the cost of share-based awards granted to employees, non-employees and directors based on the grant-date fair value of the stock options is calculated using a Black-Scholes option pricing model. The grant-date fair value of purchase rights under the Company's 2020 Employee Stock Purchase Plan ("ESPP") is calculated using a Black-Scholes option pricing model. The grant-date fair value of restricted stock is calculated based on the fair value of the underlying common stock less cash proceeds paid by the recipient to acquire the restricted stock, if any. The grant-date fair value of restricted stock unit is calculated based on the fair value of the underlying common stock. The grant-date fair value of stock-based awards with market conditions is calculated using a Monte Carlo simulation model. The fair value of the stock-based compensation is recognized on a straight-line basis over the requisite service period, which is generally the vesting period of the award. The Company has elected to recognize the effect of forfeitures in the period they occur.

The Company grants fixed value share-based awards to certain employees, wherein the awardee is entitled to a fixed dollar value compensation settled by issuing shares on the vesting date, with the number of shares determined based on the Company's stock price on or close to the settlement date. These fixed value equity awards are considered as liability classified awards. The Company measures the cost of fixed value share-based awards granted to employees based on a fixed monetary amount that is known at the inception of the obligation. The Company records the compensation cost for the fixed dollar amount of the award over the vesting period, with a corresponding liability.

### Stock-based payments to vendors / non-employees

The Company has entered into arrangements with certain vendors and other third parties wherein the Company at its discretion may elect to compensate the respective vendors for services provided in either cash or by issuing shares of the Company's Class A common stock ("Stock-in-lieu of Cash Program"). Typically, the amounts owed under the Stock-in-lieu of Cash Program are settled by issuing shares, with the number of shares generally determined based on the Company's stock price on or close to the settlement date. Payments owed under this program may be equity or liability classified depending upon fixed or variable number of shares issued for the amount owed to vendors. The Company measures the cost based on a fixed monetary amount that is known at the inception of the obligation.

#### **Income Taxes**

Income taxes are accounted for under the asset and liability method, which requires the recognition of deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the financial statements. Under this method, deferred tax assets and liabilities are determined on the basis of the differences between the financial statement and tax bases of assets and liabilities by using enacted tax rates in effect for the year in which the differences are expected to reverse. The effect of a change in tax rates on deferred tax assets and liabilities is recognized in income in the period that includes the enactment date.

The Company recognizes deferred tax assets to the extent that these assets are more likely than not to be realized. In making such a determination, all available positive and negative evidence are considered, including future reversals of existing taxable temporary differences, projected future taxable income, tax-planning strategies, and results of recent operations. If it is determined that deferred tax assets would be realized in the future, in excess of their net recorded amount, an adjustment would be made to the deferred tax asset valuation allowance, which would reduce the provision for income taxes.

The Company records uncertain tax positions in accordance with ASC 740,*Income Taxes*, on the basis of a two-step process which includes (1) determining whether it is more likely than not that the tax positions will be sustained on the basis of the technical merits of the position, and (2) for those tax positions that meet the more-likely-thannot recognition threshold. Recognized income tax positions are measured at the largest amount of tax benefit that is more than 50% likely to be realized upon ultimate settlement with the related tax authority.

The Company recognizes interest and penalties related to unrecognized tax benefits on the income tax expense line in the accompanying consolidated statement of operations. Accrued interest and penalties are included on the related tax liability line in the consolidated balance sheet.

The Tax Cuts and Jobs Act ("TCJA") subjects a U.S. shareholder to tax on global intangible low-taxed income ("GILTI") earned by certain foreign subsidiaries. Under GAAP, the Company can make an accounting policy election to either

treat taxes due on the GILTI inclusion as a current period expense or factor such amounts into the Company's measurement of deferred taxes. The Company elected to treat the GILTI inclusion as a period expense.

## **Recently Adopted Accounting Pronouncements**

In October 2021, the Financial Accounting Standards Board ("FASB") issued Accounting Standard Update ("ASU") No. ASU 2021-08, *Business Combinations (Topic 805): Accounting for Contract Assets and Contract Liabilities from Contracts with Customers* ("ASU 2021-08"). ASU 2021-08 requires an acquirer to recognize and measure contract assets and contract liabilities acquired in a business combination in accordance with Topic 606. At the acquisition date, it requires an acquirer to account for the related revenue contracts in accordance with Topic 606 as if it had originated the contracts, which should generally result in an acquirer recognizing and measuring the acquired contract assets and contract liabilities consistent with how they were recognized and measured in the acquire's financial statements. The Company elected to early adopt ASU 2021-08 as of January 1, 2022. The adoption of ASU 2021-08 did not have a material impact on the Company's consolidated financial position, operating results or cash flows.

#### Note 3. Business Combinations

#### **Freedom Photonics Acquisition**

On April 13, 2022 (the "Acquisition Date"), the Company completed its acquisition of Freedom Photonics, a designer and manufacturer of high-performance lasers and related photonic products. The Freedom Photonics acquisition is expected to help the Company secure intellectual property and the supply of a key enabling component as part of the Company's vertical integration strategy.

Pursuant to the terms of the Merger Agreement between the Company and Freedom Photonics, the Company acquired all of the issued and outstanding units of capital of Freedom Photonics for an aggregate purchase price of approximately \$34.6 million payable primarily in Class A common stock of the Company. The purchase price includes a \$0.4 million adjustment to the preliminary estimates of working capital. In conjunction with the acquisition, the Company issued share-based compensation awards to certain employees and selling equity holders of Freedom Photonics, which may result in future stock-based compensation expense, subject to achievement of certain service and performance conditions, including certain technical and financial milestones. These post-combination shared-based awards were determined to be compensatory in nature and consequently are being expensed over the vesting period of these awards. The results of operations related to Freedom Photonics are included in the Company's consolidated statements of operations beginning from the Acquisition Date. As part of the transaction, the Company incurred \$1.4 million of acquisition-related costs, which were expensed and included in general and administrative expenses in the periods in which the costs were incurred.

#### Recording of Assets Acquired and Liabilities Assumed

Preliminary estimates of fair values included in the consolidated financial statements are expected to be finalized within a year following the Acquisition Date. These are related to certain working capital adjustments and finalization of the estimates relating to deferred tax balances which will occur after the filing of the current tax returns. After the measurement period, any subsequent adjustments will be reflected in the consolidated statements of operations.

The following table summarizes the preliminary purchase price allocation to assets acquired and liabilities assumed, including identification of measurement period adjustments (in thousands):

	Preliminary Recorded Value
Cash and cash equivalents	\$ 1,063
Accounts receivable	3,311
Contract asset	1,913
Inventories, net	127
Prepaid expenses and other current assets	70
Property and equipment	1,353
Operating lease right-of-use assets	449
Other non-current assets	22
Intangible assets (1)	15,600
Goodwill (2)	15,885
Total assets acquired	39,793
Current and non-current liabilities	(5,158)
Total liabilities assumed	(5,158)
Net assets acquired	\$ 34,635

(1) Tradename was measured using the relief-from-royalty method. The remaining identifiable intangible assets were measured using the income approach. Significant inputs used as part of the valuation of intangible assets include revenue forecasts, present value factors, expected product margins and costs to complete the IPR&D.

(2) Goodwill is the excess of the consideration transferred over the net assets recognized and represents the expected future economic benefits as a result of other assets acquired that could not be individually identified and separately recognized. Goodwill is not amortized. The factors that made up goodwill recognized included assembled workforce and component cost savings. The entire amount of goodwill is expected to be deductible for tax purposes and is allocated to the ATS segment, which is also deemed the reporting unit.

Identifiable intangible assets recognized (in thousands):

	Useful Life	nary Recorded Value
Customer backlog	2 years	\$ 650
Customer relationships	4 years	2,950
Developed technology	8 years	4,000
In-process research and development (IPR&D) (1)		7,500
Tradename	4 years	500
Total intangible assets		\$ 15,600

(1) IPR&D intangibles are treated as indefinite-lived until the completion or abandonment of the associated R&D project, at which time the appropriate useful lives will be determined.

Supplemental Unaudited Pro Forma Information

The following unaudited pro forma financial information summarizes the combined results of operations for the Company and Freedom Photonics as if the companies were combined as of the beginning of fiscal year 2021. The unaudited pro forma information includes adjustments to amortization and depreciation for intangible assets and property and equipment acquired, the purchase accounting effect on transaction costs, and stock-based compensation expense.

The table below reflects the impact of adjustments to the unaudited pro forma results for the years ended December 31, 2022 and 2021 that are directly attributable to the acquisition (in thousands):



	December 31,		
	2022 20		
	 (Unaudited)		
(Decrease) / increase to expenses as a result of transaction costs	\$ (2,582) \$	2,795	
(Decrease) / increase to expenses as a result of stock-based compensation expense	4,119	19,593	

Nonrecurring pro forma adjustments include:

• Transaction costs of \$2.8 million are assumed to have occurred on January 1, 2021, and are recognized as if incurred in the first quarter of 2021;

• Employee compensation in connection with the retention awards, incentive plan awards, sign-on bonuses, and deferred shares are assumed to have started on January 1, 2021, and recognized as incurred based on their respective periods.

The unaudited pro forma information presented below is for informational purposes only and is not necessarily indicative of our consolidated results of operations of the combined business had the acquisition actually occurred at the beginning of fiscal year 2021 or the results of our future operations of the combined businesses (in thousands).

	December 31,		
	2022 2021		
	 (Unaudited)		
Revenue	\$ 46,422 \$	49,804	
Net loss	(447,736)	(260,813)	

#### Solfice Assets Acquisition

On June 15, 2022, the Company completed its acquisition from Solfice of certain assets for an aggregate consideration of \$.3 million, payable in Class A common stock of the Company, that are expected to advance Luminar's mapping software development capabilities. The transaction was determined to be an asset acquisition under ASC 805, Business Combinations, with substantially all of the fair value attributable to acquired technology.

#### **Optogration Acquisition**

On August 3, 2021, (the "Optogration Acquisition Date") the Company completed its acquisition of Optogration. The Optogration acquisition helps the Company secure intellectual property and supply of Indium Gallium Arsenide ("InGaAs") photodetector semiconductor chips, which are used to convert optical power into an electrical current. The acquisition of Optogration is part of the Company's vertical integration strategy, which helps to secure the supply of a key component of its sensor technology.

Pursuant to the terms of the Stock Purchase Agreement between the Company and Optogration, the Company acquired all of the issued and outstanding capital stock of Optogration for an aggregate purchase price of approximately \$6.3 million payable in Class A common stock of the Company. Subsequent to the Optogration Acquisition Date, up to \$22.0 million of post combination share-based awards may be payable to certain selling shareholders of Optogration, subject to certain service and performance conditions. These post combination shared-based awards were determined to be compensatory in nature and consequently are being expensed over the vesting period of these awards. In August 2022, the Company issued 1,632,056 shares of Class A common stock for \$1.0 million of the Optogration Milestone Awards due to achievement of the service and performance conditions. As of December 31, 2022, it is probable that the service and performance conditions for the remaining \$11.0 million obligation will be met.

The results of operations related to Optogration are included in the Company's consolidated statements of operations beginning from the Optogration Acquisition Date. The impact of the acquisition on the consolidated financial results of the Company for the year ended December 31, 2021 was not material.

#### Recording of Assets Acquired and Liabilities Assumed

Estimates of fair value included in the consolidated financial statements, in conformity with ASC 820, Fair Value Measurement, represent the Company's best estimates and valuations. In accordance with ASC 805, Business Combinations, the allocation of the consideration value is subject to adjustment until the Company has completed its analysis, but not to exceed one year after the Optogration Acquisition Date to provide the Company with the time to complete the valuation of its assets and liabilities.



#### Settlement of a pre-existing agreement with Optogration

Prior to the acquisition, the Company had contracted with Optogration as a supplier. In assessing whether said pre-existing supply contract was at market, favorable or unfavorable from the Company's perspective, the Company assessed whether the terms of the supply contract, including pricing, were consistent with what the Company would have required from another company that would have contracted for similar products and production volumes. The Company concluded that the supply agreement was at market, and thus no gain or loss was recognized upon effective settlement of the pre-existing supply agreement.

The following table summarizes the purchase price allocation to assets acquired and liabilities assumed, including identification of measurement period adjustments:

	Recorded Value	
Cash and cash equivalents	\$	358
Accounts receivable		810
Other current assets		482
Property and equipment		1,248
Other non-current assets		384
Intangible assets (1)		2,650
Goodwill (2)		2,244
Total assets acquired		8,176
Current Liabilities		(488)
Non-current liabilities		(1,346)
Total liabilities assumed		(1,834)
Net assets acquired	\$	6,342

(1) Identifiable intangible assets were measured using the income approach.

(2) Goodwill is the excess of the consideration transferred over the net assets recognized and represents the expected future economic benefits as a result of other assets acquired that could not be individually identified and separately recognized. Goodwill is not amortized. The factors that made up the goodwill recognized included assembled workforce and component cost savings. Goodwill is not expected to be deductible for tax purposes.

Identifiable intangible assets recognized:

	Useful Life	Reco	orded Value
Customer relationships	10 years	\$	780
Tradename	$\leq 1$ year		120
Developed technology	10 years		1,750
Total intangible assets		\$	2,650

### **Reverse Merger with Gores**

On December 2, 2020, Gores consummated the Business Combination pursuant to that certain Agreement and Plan of Merger, dated August 24, 2020 (the "Merger Agreement"), by and among Gores, Dawn Merger Sub, Inc. ("First Merger Sub"), a wholly owned subsidiary of Gores, Dawn Merger Sub II, LLC ("Second Merger Sub"), a wholly owned subsidiary of Gores, and Legacy Luminar. In connection with the consummation of the Business Combination (the "Closing"), the registrant changed its name from Gores Metropoulos, Inc. to Luminar Technologies, Inc.

Immediately following the Business Combination, there were 323,936,240 shares of common stock, consisting of 218,818,037 shares of Class A common stock and 105,118,203 shares of Class B common stock with a par value of \$0.0001 issued and outstanding, options to purchase an aggregate of 16,224,474 shares of Class A common stock and warrants to purchase, 4,089,280 shares of Class A common stock.

Pursuant to the Merger Agreement, the Company's stockholders were entitled to receive an aggregate of up to25,819,887 earn-out shares in the form of common stock (with respect to the Company's Class A stockholders' shares of Class A common stock and with respect to the Company's Class B stockholders' shares of Class B common stock). There were six

different triggering events that affect the number of earn-out shares that will be issued based upon the per share price of Class A common stock ranging from \$3.00 to \$28.00 per share. On August 11, 2021, the Company issued a total of 17,213,170 earn-out shares towards additional consideration in the form of common stock, consisting of 10,242,703 shares of Class A common stock and6,970,467 shares of Class B common stock, upon meeting four of six triggering events. The shares issued were based upon the Class A common stock trading price exceeding \$13.00, \$16.00, \$19.00 and \$22.00 per share for a certain period of time. There are5,121,484 shares of Class A common stock and 3,485,233 shares of Class B common stock remaining under the Merger Agreement, which will be issued in equal parts if the Class A common stock share price exceeds \$25.00 and \$28.00 per share for a certain period of time.

The Company accounts for the potential earn-out shares as a component of stockholders' equity in accordance with the guidance in ASC 480*Distinguishing Liabilities from Equity*, and ASC 815, *Derivatives and Hedging*. On December 2, 2020, the Company estimated the fair value of the potential earn-out shares to be \$\$7.7 million, which was estimated using a Monte Carlo Model and Level 3 fair value inputs including volatility of 58.5% and a contractual term of 5.5 years. This was recorded as an increase in additional paid-in capital with an offsetting amount recorded in the same account, due to the absence of retained earnings.

The Business Combination was accounted for as a reverse recapitalization in accordance with GAAP as Legacy Luminar has been determined to be the accounting acquirer, primarily due to the fact that Legacy Luminar stockholders continue to control the post-combination Company. Under this method of accounting, while Gores was the legal acquirer, it has been treated as the "acquired" company for financial reporting purposes. Accordingly, the Business Combination was treated as the equivalent of Legacy Luminar issuing stock for the net assets of Gores, accompanied by a recapitalization. The net assets of Gores were stated at historical cost, with no goodwill or other intangible assets recorded. Operations prior to the Business Combination, have been retroactively restated as shares reflecting the exchange ratio established in the Business Combination (approximately 1 Gores shares to 13.63094 Luminar shares).

The Company incurred \$17.2 million in transaction costs relating to the merger with Gores, which has been offset against additional paid-in capital in the Consolidated Statements of Convertible Preferred Stock and Stockholders' Equity (Deficit). On the date of the Business Combination, the Company recorded a liability related to the Public and Private Warrants of \$102.4 million, with an offsetting entry to additional paid-in capital.

Upon closing of the Business Combination, the shareholders' of Gores were issued49,981,349 shares of Class A common stock. In connection with the Closing, holders of 18,651 shares of common stock of Gores were redeemed at a price per share of \$0.16.



### Note 4. Revenue

The Company's revenue is comprised of sales of lidar sensors hardware, components, NRE services and licensing of certain information available with the Company.

### Disaggregation of Revenues

The Company disaggregates its revenue from contracts with customers by (1) geographic region based on customer's billed to location, and (2) type of good or service and timing of transfer of goods or services to customers (point-in-time or over time), as it believes it best depicts how the nature, amount, timing and uncertainty of its revenue and cash flows are affected by economic factors. Total revenue based on the disaggregation criteria described above, as well as revenue by segment, are as follows (in thousands):

			Year Ende	d December 31,		
	20	022		2021	2	2020
	Revenue	% of Revenue	Revenue	% of Revenue	Revenue	% of Revenue
Revenue by primary geographical market	t:					
North America	\$ 35,032	86 %	\$ 23,043	72 %	\$ 4,010	29 %
Asia Pacific	3,703	9 %	2,502	8 %	906	6 %
Europe and Middle East	1,963	5 %	6,399	20 %	9,035	65 %
Total	40,698	100 %	31,944	100 %	13,951	100 %
Revenue by timing of recognition:						
Recognized at a point in time	17,595	43 %	8,892	28 %	2,639	19 %
Recognized over time	23,103	57 %	23,052	72 %	11,312	81 %
Total	40,698	100 %	31,944	100 %	13,951	100 %
Revenue by segment:						
Autonomy Solutions	24,353	60 %	28,497	89 %	11,387	82 %
ATS	16,345	40 %	3,447	11 %	2,564	18 %
Total	40,698	100 %	31,944	100 %	13,951	100 %

#### Volvo Stock Purchase Warrant

In March 2020, the Company issued a stock purchase warrant ("Volvo Warrants") to Volvo Car Technology Fund AB ("VCTF") in connection with an engineering services contract. The Volvo Warrants entitle VCTF to purchase up to 4,089,280 shares of Class A common stock, at a price of \$.1769 per share from the Company and were determined to be an equity classified award to VCTF. The Volvo Warrants vest and become exercisable in two tranches based on satisfaction of certain commercial milestones, upon reaching commercial production and delivery of production units. The grant date fair value of the Volvo Warrants, aggregating \$2.9 million, represents consideration payable to VCTF and is being recognized as reduction in revenue consistent with the revenue recognition pattern when these warrants become probable of vesting. The Company's management determined that the vesting of the first of the two tranches of the Volvo Warrants was probable as of December 31, 2021. As such, the Company had recognized as reduction in revenue upon achievement of sales of a certain number of the Company's sensors to Volvo for use in their commercial vehicles. This threshold had not been achieved as of December 31, 2022.

### Contract assets and liabilities

Contract assets primarily represent revenues recognized for performance obligations that have been satisfied but for which amounts have not been billed. The Company's contract assets as of December 31, 2022 and 2021 were \$18.0 million and \$9.9 million. Contract liabilities consist of deferred revenue and customer advanced payments. Deferred revenue includes billings in excess of revenue recognized related to product sales and other services revenue and is recognized as revenue when the Company performs under the contract. Customer advanced payments represent required customer payments in advance of product shipments according to customer's payment term. Customer advance payments are recognized as revenue when control of the performance obligation is transferred to the customer. The Company's contract liabilities were \$3.0 million and \$0.9 million as of December 31, 2022 and 2021, respectively, and were included in accrued and other current and non-current liabilities in the consolidated balance sheets.



The opening and closing balances of contract assets were as follows (in thousands):

	Decem	ber 31,
	2022	2021
Contract assets, current	\$ 15,395	\$ 9,907
Contract assets, non-current	2,575	_
Ending balance	\$ 17,970	\$ 9,907

The significant changes in contract assets balances consisted of the following (in thousands):

	December 31,	
	2022	2021
Beginning balance	\$ 9,907 \$	_
Amounts billed that were included in the contract assets beginning balance	(4,228)	_
Revenue recognized for performance obligations that have been satisfied but for which amounts have not been billed	12,291	9,907
Ending balance	\$ 17,970 \$	9,907

The opening and closing balances of contract liabilities were as follows (in thousands):

	Decem	ber 31,	
	2022		2021
Contract liabilities, current	\$ 1,993	\$	898
Contract liabilities, non-current	1,015		
Ending balance	\$ 3,008	\$	898

The significant changes in contract liabilities balances consisted of the following (in thousands):

	 Decem	ber 31,	
	 2022		2021
Beginning balance	\$ 898	\$	2,284
Revenue recognized that was included in the contract liabilities beginning balance	(489)		(1,792)
Increase due to cash received and not recognized as revenue and billings in excess of revenue recognized during the period	2,599		406
Ending balance	\$ 3,008	\$	898

Remaining Performance Obligations

Revenue allocated to remaining performance obligations was \$39.7 million as of December 31, 2022 and includes amounts within contract liabilities. The Company expects to recognize approximately 82% of this revenue over the next 12 months and the remainder thereafter.

## Note 5. Investments

## **Debt Securities**

The Company's investments in debt securities consisted of the following as of December 31, 2022 and 2021 (in thousands):

	 December 31, 2022						
	Cost		Gross Unrealized Gains		Gross Unrealized Losses		Fair Value
U.S. treasury securities	\$ 191,075	\$	3	\$	(2,598)	\$	188,480
U.S. agency and government sponsored securities	4,999		_		(75)		4,924
Commercial paper	74,755				(232)		74,523
Corporate bonds	111,123				(1,214)		109,909
Asset-backed securities	11,945		—		(110)		11,835
Total debt securities	\$ 393,897	\$	3	\$	(4,229)	\$	389,671
Included in marketable securities	\$ 393,897	\$	3	\$	(4,229)	\$	389,671

	December 31, 2021						
	 Cost		Gross Unrealized Gains		Gross Unrealized Losses		Fair Value
U.S. treasury securities	\$ 161,938	\$	1	\$	(474)	\$	161,465
U.S. agency and government sponsored securities	4,995		_		(25)		4,970
Commercial paper	40,788		_		(4)		40,784
Corporate bonds	165,522		13		(345)		165,190
Asset-backed securities	46,540		—		(74)		46,466
Total debt securities	\$ 419,783	\$	14	\$	(922)	\$	418,875
Included in cash and cash equivalents	\$ 950	\$		\$	_	\$	950
Included in marketable securities	\$ 418,833	\$	14	\$	(922)	\$	417,925

The following table presents the gross unrealized losses and the fair value for those debt securities that were in an unrealized loss position for less than 12 months as of December 31, 2022 and 2021 (in thousands):

	December 31, 2022			December 31, 2021			2021	
	1	Gross Unrealized Losses		Fair Value		Gross Unrealized Losses		Fair Value
U.S. treasury securities	\$	(2,598)	\$	158,888	\$	(474)	\$	146,454
U.S. agency and government sponsored securities		(75)		4,924		(25)		4,970
Commercial paper		(232)		74,523		(4)		30,285
Corporate bonds		(1,214)		109,909		(345)		145,522
Asset-backed securities		(110)		11,835		(74)		45,251
Total	\$	(4,229)	\$	360,079	\$	(922)	\$	372,482

As of December 31, 2022, the total amortized cost basis of the Company's available-for-sale securities exceeded its fair value by **\$**.2 million, which was primarily attributable to widening credit spreads and rising interest rates since purchase. The Company reviewed its available-for-sale securities and concluded that the decline in fair value was not related to credit losses and that it is more likely than not that the entire amortized cost of each security will be recoverable before the Company is required to sell them or when the security matures. Accordingly, during the year ended December 31, 2022, no allowance for credit losses was recorded and instead the unrealized losses are reported as a component of accumulated other comprehensive income (loss).



### **Equity Investments**

The Company's equity investments consisted of the following as of December 31, 2022 and 2021 (in thousands):

		December 31,				
	<b>Consolidated Balance Sheets Location</b>		2022		2021	
Money market funds <sup>(1)</sup>	Cash and cash equivalents	\$	42,056	\$	25,654	
Marketable equity investments <sup>(1)</sup>	Marketable securities		29,643		44,216	
Non-marketable equity investment measured using the measurement alternative $^{(2)}$	Other non-current assets		4,000		10,002	
		\$	75,699	\$	79,872	

(1) Investments with readily determinable fair values.

(2) Investment in privately held company without readily determinable fair value.

In December 2021, the Company made an investment in 1,495 Class A Preferred Units of Robotic Research OpCo, LLC ("Robotic Research") for consideration of \$10.0 million, which was settled by issuing 618,924 shares of Class A common stock of the Company. The Company's investment in Robotic Research represents less that \$5% of Robotic Research's capitalization. The Company neither has a significant influence over Robotic Research nor does its investment amount to a controlling financial interest in Robotic Research. As such, the Company measured the initial investment in Robotic Research at cost as provided under the guidance for measurement of equity investment using the measurement alternative. In the fourth quarter of 2022, the Company recorded an impairment charge of \$6.0 million related to the investment in Robotic Research.

In December 2022, the Company made an investment in1,500,000 Class A ordinary shares of ECARX Holdings Inc., ("ECARX") for consideration of \$5.0 million, which was settled by issuing 2,030,374 shares of Class A common stock of the Company. The Company's investment in ECARX represents less than % of ECARX's capitalization. The Company neither has a significant influence over ECARX nor does its investment amount to a controlling financial interest in ECARX. The Company measured the investment in ECARX using the quoted prices in active markets with changes recorded in other income (expense), net on the consolidated statement of operations. Jun Hong Heng is a director of ECARX. Mr. Heng is also a director of Luminar.

## Note 6. Financial Statement Components

### **Cash and Cash Equivalents**

Cash and cash equivalents consisted of the following (in thousands):

	Decer	nber 31,	
	2022		2021
Cash	\$ 27,496	\$	303,373
Money market funds	42,056		25,654
Commercial paper	—		950
Total cash and cash equivalents	\$ 69,552	\$	329,977

### Inventory

Inventory consisted of the following (in thousands):

	Decem	ber 31,
	2022	2021
Raw materials	\$ 3,614	\$ 5,866
Work-in-process	2,329	1,171
Finished goods	2,849	3,305
Total inventory	\$ 8,792	\$ 10,342

The Company's inventory write-offs and write-downs (primarily due to obsolescence, lower of cost or market assessment, and other adjustments) was \$2.2 million, \$2.9 million and \$4.4 million during the years ended December 31, 2022, 2021 and 2020, respectively.



# Prepaid Expenses and Other Current Assets

Prepaid expenses and other current assets consisted of the following (in thousands):

	Decem	ber 31,	
	 2022		2021
Prepaid expenses	\$ 15,653	\$	14,651
Contract assets	15,395		9,907
Advance payments to vendors	7,919		1,810
Other receivables	5,236		2,827
Total prepaid expenses and other current assets	\$ 44,203	\$	29,195

## **Property and Equipment**

Property and equipment consisted of the following (in thousands):

	Decen	nber 31,
	2022	2021
Machinery and equipment	\$ 14,047	\$ 7,694
Computer hardware and software	6,797	2,854
Land	1,001	
Leasehold improvements	885	869
Vehicles, including demonstration fleet	3,222	2,421
Furniture and fixtures	818	272
Construction in progress	13,642	3,677
Total property and equipment	40,412	17,787
Accumulated depreciation and amortization	(10,152)	(6,778)
Total property and equipment, net	\$ 30,260	\$ 11,009

Property and equipment capitalized under finance lease (capital lease prior to adoption of ASC 842) were not material. Construction in progress increased due to increased capital expenditure related to capital projects to enable the Company to achieve series production readiness.

Depreciation and amortization associated with property and equipment was \$4.3 million, \$3.9 million and \$2.5 million for the years ended December 31, 2022, 2021 and 2020, respectively.

## Intangible Assets

The following table summarizes the activity in the Company's intangible assets (in thousands):

		2022		2021
Beginning of the period	\$	2,424	\$	_
Additions		21,890		2,650
Amortization		(2,237)		(226)
End of the period	\$	22,077	\$	2,424

Intangible assets were acquired in connection with the Company's acquisition of Optogration in August 2021, Freedom Photonics in April 2022 and Solfice in June 2022. See Note 3 for further details of these acquisitions. The components of intangible assets were as follows (in thousands):

	December 31, 2022					December	r 3	1, 2021			
	 Gross Carrying Amount		cumulated nortization		Net Carrying Amount	Weighted Average Remaining Period (Years)	Gross Carrying Amount	Accumulated Amortization		Net Carrying Amount	Weighted Average Remaining Period (Years)
Customer relationships	\$ 3,730	\$	(664)	\$	3,066	4.4	\$ 780	\$ (33)	\$	5 747	9.6
Customer backlog	650		(292)		358	0.9	_			_	_
Tradename	620		(214)		406	3.3	120	(120)		_	_
Assembled workforce	130		(130)		_	_	_			_	_
Developed technology	11,910		(1,163)		10,747	7.5	1,750	(73)		1,677	9.6
IPR&D	7,500		_		7,500	_	_			_	_
Total intangible assets	\$ 24,540	\$	(2,463)	\$	22,077	6.6	\$ 2,650	\$ (226)	\$	5 2,424	9.6

Amortization expense related to intangible assets was \$2.2 million, \$0.2 million and \$0.0 million for the year ended December 31, 2022, 2021 and 2020, respectively.

As of December 31, 2022, the expected future amortization expense for intangible assets was as follows (in thousands):

Period	Expected Future Amortization Expense
2023	\$ 2,73
2024	2,37
2025	2,37
2026	1,72
2027	1,51
Thereafter	3,86
IPR&D	7,50
Total	\$ 22,07

## Goodwill

The carrying amount of goodwill allocated to the Company's reportable segments was as follows (in thousands):

	Autono	my Solutions	ATS		Total
Balance as of December 31, 2021	\$	687	\$ 2,423	\$	3,110
Acquired goodwill related to Freedom Photonics in 2022			15,885		15,885
Purchase accounting adjustments			(179	)	(179)
Balance as of December 31, 2022	\$	687	\$ 18,129	\$	18,816



### **Other Non-Current Assets**

Other non-current assets consisted of the following (in thousands):

	December 31,				
	2022	2021			
Security deposits	\$ 5,495	\$ 1,187			
Non-marketable equity investment	4,000	10,002			
Advance payment for capital projects	27,683	—			
Contract assets	2,575	—			
Other non-current assets	591	1,266			
Total other non-current assets	\$ 40,344	\$ 12,455			

### Accrued and Other Current Liabilities

Accrued and other current liabilities consisted of the following (in thousands):

		2022		2021
Accrued compensation and benefits	\$	16,682	\$	9,899
Accrued expenses		22,358		6,727
Warranty reserves		3,584		1,798
Contract liabilities		1,993		898
Accrued interest payable		359		316
Contract losses		7,526		115
Other		460		91
Total accrued and other current liabilities	\$	52,962	\$	19,844

During the year ended December 31, 2022, the Company recorded \$19.2 million in cost of sales (services) estimated losses expected to be incurred on NRE projects with certain customers. Estimated contract losses in the year ended December 31, 2021 and 2020 were not material. The estimated contract losses recorded in 2022 were primarily a result of (a) changes in estimates related to costs expected to be incurred for contractual milestones based on actual experience on similar projects and (b) changes in scope of project deliverables agreed upon with the respective customers during the year.

### Note 7. Debt

### **Convertible Senior Notes and Capped Call Transactions**

In December 2021, the Company issued \$625.0 million aggregate principal amount of 1.25% Convertible Senior Notes due 2026 in a private placement, which included \$75.0 million aggregate principal amount of such notes pursuant to the exercise in full of the option granted to the initial purchasers to purchase additional notes (collectively, the "Convertible Senior Notes"). The interest on the Convertible Senior Notes is payable semi-annually in arrears on June 15 and December 15 of each year, beginning on June 15, 2022. The Convertible Senior Notes will mature on December 15, 2026, unless earlier repurchased or redeemed by the Company or converted pursuant to their terms.

The total net proceeds from the debt offering, after deducting fees paid to the initial purchasers paid by the Company, was approximately \$09.4 million.

Each \$1,000 principal amount of the Convertible Senior Notes is initially convertible into50.0475 shares of the Company's Class A common stock, par value \$0.0001, which is equivalent to an initial conversion price of approximately \$19.98 per share. The conversion rate is subject to adjustment upon the occurrence of certain specified events prior to the maturity date but will not be adjusted for any accrued and unpaid interest. In addition, following certain corporate events that occur prior to the maturity date or if the Company delivers a notice of redemption in respect of some or all of the Convertible Senior Notes, the Company will, under certain circumstances, increase the conversion rate of the Convertible Senior Notes for a holder who elects to convert its Convertible Senior Notes in connection with such a corporate event or convert is Convertible Senior Notes called for redemption during the related redemption period, as the case may be. The Convertible Senior Notes are redeemable, in whole or in part (subject to certain limitations), at the Company's option at any time, and from time to time, on or after December 20, 2024, and on or before the 40th scheduled trading day immediately before the maturity date, at a cash redemption price equal to the principal amount of the Convertible Senior Notes to be redeemed, plus accrued and unpaid

interest, if any, to, but excluding, the redemption date, but only if certain liquidity conditions are satisfied and the last reported sale price per share of the Class A common stock exceeds 130% of the conversion price on (1) each of at least20 trading days, whether or not consecutive, during the 30 consecutive trading days ending on, and including, the trading day immediately before the date the Company sends the related redemption notice, and (2) the trading day immediately before the date the Company sends such notice. If the Company undergoes a fundamental change (as defined in the indenture governing the Convertible Senior Notes) prior to the maturity date, holders may require the Company to repurchase for cash all or any portion of their Convertible Senior Notes in principal amounts of \$1,000 or a multiple thereof at a fundamental change repurchase price equal to 100% of the principal amount of the Convertible Senior Notes to be repurchased, plus accrued and unpaid interest to, but excluding, the fundamental change repurchase date.

Holders of the Convertible Senior Notes may convert their Convertible Senior Notes at their option at any time prior to the close of business on the business day immediately preceding December 15, 2026, in multiples of \$1,000 principal amount, only under the following circumstances: (1) during any calendar quarter (and only during such calendar quarter) commencing after the calendar quarter ending on March 31, 2022, if the last reported sale price per share of the Class A common stock exceeds 130% of the conversion price for each of at least 20 trading days, whether or not consecutive, during the 30 consecutive trading days ending on, and including, the last trading day of the immediately preceding calendar quarter; (2) during the five consecutive business days immediately after any 10 consecutive trading day of the measurement period") in which the trading price per \$1,000 principal amount of Convertible Senior Notes for each trading day of the measurement period was less than 98% of the product of the last reported sale price per share of the Class A common stock as common stock; and (4) if the Convertible Senior Notes are called for redemption. On or after June 15, 2026, holders may convert all or any portion of their Convertible Senior Notes at any time prior to the close of business on the second scheduled trading day immediately preceding the maturity date, regardless of the foregoing circumstances. Upon conversion, the Company will pay or deliver, as the case may be, cash, shares of its Class A common stock, at the Company's election. As of December 31, 2022, the conditions allowing holders of the Convertible Senior Notes to convert were not met.

It is the Company's current intent to settle the principal amount of its outstanding Convertible Senior Notes in cash and any excess in shares of the Company's Class A common stock.

The Convertible Senior Notes are senior unsecured obligations and will rank equal in right of payment with the Company's future senior unsecured indebtedness; senior in right of payment to the Company's future indebtedness that is expressly subordinated to the Convertible Senior Notes; effectively subordinated to the Company's existing and future secured indebtedness, to the extent of the value of the collateral securing that indebtedness; and structurally subordinated to all existing and future indebtedness and other liabilities, including trade payables, and (to the extent the Company is not a holder thereof) preferred equity, if any, of the Company's subsidiaries.

The Company has classified the Convertible Senior Notes as a non-current liability under the guidance in ASC 470-20, as amended by ASU 2020-06. Debt discount and issuance costs aggregating approximately \$16.2 million were initially recorded as a reduction to the principal amount of the Convertible Senior Notes and is being amortized as interest expense on a straight line basis over the contractual terms of the notes. The Company estimates that the difference between amortizing the debt discounts and the issuance costs using the straight line method as compared to using effective interest rate method is immaterial.

The net carrying amount of the Convertible Senior Notes was as follows (in thousands):

	December 31,						
	2022	2021					
Principal	\$ 625,000	\$	625,000				
Unamortized debt discount and issuance costs	(12,808)		(16,043)				
Net carrying amount	\$ 612,192	\$	608,957				



The following table sets forth the interest expense recognized related to the Convertible Senior Notes (in thousands):

	2022         2021				
	2022	2021			
Contractual interest expense	\$ 7,812	\$	316		
Amortization of debt discount and issuance costs	3,236		135		
Total interest expense	\$ 11,048	\$	451		

The remaining term over which the debt discount and issuance costs will be amortized is 3.96 years. Interest expense of \$7.8 million and \$0.5 million is reflected as a component of interest (expense) income, net in the accompanying consolidated statement of operations for the years ended December 31, 2022 and 2021, respectively.

In connection with the offering of the Convertible Senior Notes, the Company entered into privately negotiated capped call option transactions with certain counterparties (the "Capped Calls"). The Capped Calls each have an initial strike price of approximately \$19.98 per share, subject to certain adjustments, which corresponds to the initial conversion price of the Convertible Senior Notes. The Capped Calls have initial cap prices of \$30.16 per share, subject to certain adjustment events. The Capped Calls are generally intended to reduce the potential dilution to the Class A common stock upon any conversion of the Convertible Senior Notes and/or offset any cash payments the Company is required to make in excess of the principal amount of converted Convertible Senior Notes, as the case may be, with such reduction and/or offset subject to a cap based on the cap price. The Capped Calls expire on April 6, 2027, subject to earlier exercise. The Capped Calls are subject to either adjustment or termination upon the occurrence of specified extraordinary events affecting the Company, including a merger event, a tender offer, and a nationalization, insolvency or delisting involving the Company. In addition, the Capped Calls are subject to certain specified additional disruption events that may give rise to a termination of the Capped Calls, including changes in law, failure to deliver, and hedging disruptions. The net cost of \$73.4 million incurred to purchase the Capped Calls was recorded as a reduction to additional paid-in capital in the accompanying consolidated balance sheet. The Capped Calls are not accounted for as derivatives.

#### Senior Secured Loan

Legacy Luminar had in August 2017 issued certain Senior Secured Promissory Notes ("Senior Secured Notes"). These Senior Secured Notes were subsequently amended, refinanced and partially repaid at various times through 2020. The Senior Secured Notes were repaid in full in December 2020 as required per the terms of the Merger Agreement. The Company had recorded loss on extinguishment of debt in connection with the Senior Secured Notes in the amount of approximately \$4.0 million and interest expense in the amount of \$2.5 million in 2020.

In connection with the issuance of Senior Secured Notes and its subsequent amendment, refinance and partial repayments at various times through 2020, Legacy Luminar had issued warrants in 2017, 2018 and 2019 (collectively "Legacy Warrants"). The Legacy Warrants were recorded at fair value with subsequent changes in fair value reflected in earnings. The change in fair value resulted in a loss of \$27.3 million during the year ended December 31, 2020. Upon closing of the Business Combination, the Legacy Warrants were exercised for 1,466,155 shares of Class A common stock. No Legacy Warrants have been outstanding since December 31, 2020.

### Note 8. Fair Value Measurements

As of December 31, 2022, the Company carried cash equivalents, marketable investments and Private Warrants that are measured at fair value on a recurring basis. The Company had previously carried Public Warrants which were exercised and redeemed in March 2021.

Fair value is based on the price that would be received from selling an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Fair value is estimated by applying the following hierarchy, which prioritizes the inputs used to measure fair value into three levels and bases the categorization within the hierarchy upon the lowest level of input that is available and significant to the fair value measurement:

Level 1 — Observable inputs, which include unadjusted quoted prices in active markets for identical assets or liabilities.

Level 2 — Observable inputs other than Level 1 inputs, such as quoted prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3 — Unobservable inputs that are supported by little or no market activity and that are based on management's assumptions, including fair value measurements determined by using pricing models, discounted cash flow methodologies or similar techniques.



The Company determined the fair value of its Level 1 financial instruments, which are traded in active markets, using quoted market prices for identical instruments.

Marketable investments classified within Level 2 of the fair value hierarchy are valued based on other observable inputs, including broker or dealer quotations, alternative pricing sources or U.S. Government Treasury yield of appropriate term. When quoted prices in active markets for identical assets or liabilities are not available, the Company relies on non-binding quotes from its investment managers, which are based on proprietary valuation models of independent pricing services. These models generally use inputs such as observable market data, quoted market prices for similar instruments, historical pricing trends of a security as relative to its peers. To validate the fair value determination provided by its investment managers, the Company reviews the pricing movement in the context of overall market trends and trading information from its investment managers. The Company performs routine procedures such as comparing prices obtained from independent source to ensure that appropriate fair values are recorded.

Given that the transfer of Private Warrants to anyone outside of a small group of individuals constituting the sponsors of Gores Metropoulos, Inc. would result in the Private Warrants having substantially the same terms as the Public Warrants, management determined that the fair value of each Private Warrant is the same as that of a Public Warrant, with an insignificant adjustment for short-term marketability restrictions, as of December 31, 2021. As of December 31, 2022, management determined the fair value of the Private Warrants using observable inputs in the Black-Scholes valuation model, which used the remaining term of warrants of 2.92 years, volatility of 85.0% and a risk-free rate of 4.23%. Accordingly, the Private Warrants are classified as Level 3 financial instruments.

The following table presents changes in Level 3 liabilities relating to Private Warrants measured at fair value (in thousands):

	Warı	Private ants
Balance as of December 31, 2021	\$	31,230
Change in fair value prior to exercises		4,713
Reduction in liability due to exercises		(19,003)
Change in fair value of outstanding warrants		(13,935)
Balance as of December 31, 2022	\$	3,005

The Company's financial assets and liabilities subject to fair value measurements on a recurring basis and the level of inputs used for such measurements were as follows (in thousands):

	Fair Value (in thousands) Measured as of December 31, 2022 Using:									
	. <u> </u>	Level 1		Level 2	1	Level 3		Total		
Assets:										
Cash equivalents:										
Money market funds	\$	42,056	\$	—	\$		\$	42,056		
Total cash equivalents	\$	42,056	\$	—	\$	_	\$	42,056		
Marketable investments:										
U.S. treasury securities	\$	188,480	\$	_	\$	_	\$	188,480		
J.S. agency and government sponsored securities				4,924				4,924		
Commercial paper		—		74,523		—		74,523		
Corporate bonds				109,909				109,909		
Asset-backed securities				11,835				11,835		
Marketable equity investments		29,643		—		—		29,643		
Total marketable investments	\$	218,123	\$	201,191	\$	—	\$	419,314		
Liabilities:		; ;								
Private Warrants				_		3,005		3,005		
Fotal warrant liabilities	\$	—	\$		\$	3,005	\$	3,005		



	Fair Value (in thousands) Measured as of December 31, 2021 Using:								
	 Level 1		Level 2		Level 3		Total		
Assets:									
Cash equivalents:									
Money market funds	\$ 25,654	\$	—	\$	—	\$	25,654		
Commercial paper			950		—		950		
Total cash equivalents	\$ 25,654	\$	950	\$	—	\$	26,604		
Marketable investments:									
U.S. treasury securities	\$ 161,465	\$	—	\$	—	\$	161,465		
U.S. agency and government sponsored securities	_		4,970		_		4,970		
Commercial paper			39,834		—		39,834		
Corporate bonds			165,190		—		165,190		
Asset-backed securities	_		46,466		_		46,466		
Marketable equity investments	44,216		—		—		44,216		
Total marketable investments	\$ 205,681	\$	256,460	\$	—	\$	462,141		
Liabilities:									
Private Warrants	_		_		31,230		31,230		
Total warrant liabilities	\$ _	\$		\$	31,230	\$	31,230		

The Company's non-marketable equity investment, measured at fair value on a non-recurring basis, that has been remeasured during the period due to impairment is classified within Level 3 in the fair value hierarchy because the Company estimated the value based on valuation methods which included unobservable inputs including projections received from Robotic Research, market conditions, preference rights, etc. of the investment the Company holds. See Note 5 for further information on the Company's non-marketable equity investment.

As of December 31, 2022 and 2021, the estimated fair value of the Company's outstanding Convertible Senior Notes was \$52.5 million and \$669.4 million, respectively. The fair value was determined based on the quoted price of the Convertible Senior Notes in an inactive market on the last trading day of the reporting period and have been classified as Level 2 in the fair value hierarchy. See Note 7 for further information on the Company's Convertible Senior Notes.

The Company's other financial instruments' fair value, including accounts receivable, accounts payable and other current liabilities, approximate its carrying value due to the relatively short maturity of those instruments. The carrying amounts of the Company's finance leases approximate their fair value, which is the present value of expected future cash payments based on assumptions about current interest rates and the creditworthiness of the Company.

#### Note 9. Convertible Preferred Stock

#### Series A Convertible Preferred Stock

On June 24, 2019, Legacy Luminar had amended and restated its Certificate of Incorporation ("Certificate"), which authorized the issuance of up to102,740,023 shares of Series A Convertible Preferred Stock with a par value of \$0.00001. On June 24, 2019, Legacy Luminar entered into a Series A Convertible Preferred Stock Purchase Agreement to issue preferred stock to investors for cash and in settlement of outstanding SAFEs and Bridge Note.

### Series X Convertible Preferred Stock

On August 24, 2020, Legacy Luminar had entered into the Series X Convertible Preferred Stock Purchase Agreement to offer shares of Legacy Luminar's Series X Convertible Preferred Stock. In August 2020 and September of 2020, Legacy Luminar issued an aggregate of 17,065,536 convertible preferred stock for cash at a purchase price of \$9.96 per share of preferred stock, which generated gross proceeds of \$17.0 million. In October 2020, Legacy Luminar had issued an additional1,391,694 shares of preferred stock for gross proceeds of \$13.86 million. Accordingly, Legacy Luminar had amended and restated its certificate of incorporation, which authorized the issuance of up to 20,077,073 shares of Series X Convertible Preferred Stock with a par value of \$0.00001.

Upon closing of the Business Combination on December 2, 2020, the outstanding shares of Series A and Series X Convertible Preferred Stock were automatically converted into 113,275,381 shares of the Company Class A common stock.



### Beneficial Conversion Features ("BCFs")

The Company had assessed whether BCFs existed for the optional conversion rights that did not require bifurcation as derivatives. If the conversion option was in-themoney as of the commitment date, the preferred stock contained a BCF. The BCF was recognized as a deemed dividend against the carrying amount of the preferred stock. The Company had monitored for the issuance of additional shares below the conversion price, which could have resulted in a contingent BCF. The Company had recorded a total BCF of \$12.0 million from the issuance of preferred stock prior to the close of the Business Combination. Because the preferred stock was convertible at any time pursuant to the optional conversion feature, the Company recognized a dividend equal to the BCF at the applicable commitment date. As the Company had an accumulated deficit as of the end of all periods presented, the BCF resulted in an increase and decrease in additional paid-in capital by the same amount.

Furthermore, the preferred stock contained a down-round protection provision that reduced the conversion price if the Company issues shares at less than the conversion price or for no consideration. This provision was not triggered upon consummation of the Business Combination and no contingent BCF was recorded during the year ended December 31, 2020.

### Note 10. Earnings (Loss) Per Share

Basic earnings (loss) per share is computed by dividing net income (loss) by the weighted average number of shares of common stock outstanding during the period. Diluted earnings per share is computed by dividing net income by the weighted average number of shares of common stock during the period plus, common stock equivalents, as calculated under the treasury stock method, outstanding during the period. If the Company reports a net loss, the computation of diluted loss per share excludes the effect of dilutive common stock equivalents, as their effect would be antidilutive. The Company computes earnings (loss) per share using the two-class method for its Class A and Class B common stock. Earnings (loss) per share is same for both Class A and Class B common stock since they are entitled to the same liquidation and dividend rights. Earnings (loss) per share calculations for all periods prior to the Business Combination have been retrospectively restated to the equivalent number of shares reflecting the exchange ratio established in the reverse capitalization.

The following table sets forth the computation of basic and diluted loss for the years ended December 31, 2022, 2021, and 2020 as follows: (in thousands, except for share and per share amounts):

	December 31,					
		2022		2021		2020
Numerator:						
Net loss	\$	(445,939)	\$	(237,986)	\$	(362,298)
Deemed dividend attributable to BCF accretion				_		(6,757)
Net loss attributable to common shareholders	\$	(445,939)	\$	(237,986)	\$	(369,055)
Denominator:						
Weighted average Common shares outstanding- Basic		356,265,774		346,300,975		145,096,996
Weighted average Common shares outstanding- Diluted		356,265,774		346,300,975		145,096,996
Net loss per shares attributable to Common shareholders- Basic and Diluted	\$	(1.25)	\$	(0.69)	\$	(2.54)

The following table presents the potential shares of common stock outstanding that were excluded from the computation of diluted net loss per share of common stock as of the periods presented because including them would have been antidilutive:

		December 31,				
	2022	2021	2020			
Warrants	5,757,549	7,166,301	24,089,255			
Stock-based awards-Equity classified	33,372,534	24,156,973	18,003,962			
Stock-based awards-Liability classified	14,302,723	2,401,648	—			
Vendor stock-in-lieu of cash program	3,162,879	1,659,510	_			
Convertible Senior Notes	31,279,716	31,279,716	—			
Earn-out shares	8,606,717	8,606,717	25,818,744			
Total	96,482,118	75,270,865	67,911,961			

The Company uses the if converted method for calculating the dilutive effect of the Convertible Senior Notes using the initial conversion price of \$9.981 per share. The closing price of Class A common stock as of December 31, 2022 was less than the initial conversion price.



#### Note 11. Stockholders' Equity (Deficit)

## **Class A and Class B Common Stock**

The Company's Board of Directors has authorized two classes of common stock, Class A and Class B. As of December 31, 2022, the Company had authorized 715,000,000 and 121,000,000 shares of Class A and Class B common stock with a par value of \$0.0001 per share for each class. As of December 31, 2022, the Company had 291,942,087 shares issues and 270,078,637 shares outstanding shares of Class A common stock, and97,088,670 shares of issued and outstanding Class B common stock. Holders of the Class A and Class B common stock have identical rights, except that holders of the Class A common stock are entitled to one vote per share and the holder of the Class B common stock is entitled to ten votes per share. Shares of Class B common stock can be converted to shares of Class A common stock at any time at the option of the stockholder and automatically convert upon sale or transfer, except for certain transfers specified in the Company's amended and restated certificate of incorporation. During 2021, 15,000,000 shares of Class B common stock were converted into Class A common stock on one-for-one basis.

In connection with the merger with Gores on December 2, 2020, the Company's Chief Executive Officer exchanged22,935,412 shares of Founders Preferred Stock and 82,182,791 shares of Class A common stock, which were entitled toone vote per share, into the same number of shares of Class B common stock, which are entitled toten votes per share. The Company recorded the incremental value of \$3.0 million associated with this transaction as stock-based compensation in general and administrative expenses.

### **Treasury Stock**

In December 2021, the Company's Board of Directors authorized share repurchases up to \$12.5 million of the Company's Class A common stock. The Company's share repurchase program does not obligate the Company to acquire any specific number of shares. Under the program, shares could be repurchased in privately negotiated and/or open market transactions, including under plans complying with Rule 10b5-1 under the Securities Exchange Act of 1934, as amended (the "Exchange Act"). In the fourth quarter of 2021, the Company repurchased 15,263,761 shares Class A common stock for \$35.9 million through negotiated and market purchase transactions. In the first and second quarters of 2022, the Company repurchased 2,682,548 and 3,917,141 shares of Class A common stock for \$9.7 million and \$36.9 million, respectively. As of December 31, 2022, no amount remained available for stock repurchases pursuant to our stock repurchase program. The repurchased shares have been recorded as Treasury Stock on the Balance Sheet as of December 31, 2022 and 2021.

#### **Founders Preferred Stock**

26,206,837 shares of Founders Preferred Stock were issued in 2015. The compensation expense associated with the Founders Preferred Stock was immaterial to the financial statements. The Founders Preferred Stock was substantively the same as common stock, as they share identical rights and features. The Founders Preferred Stock was convertible into common stock on a one-to-one basis at any time. The Founders Preferred Stock is presented as a component of the Company's permanent equity. Upon closing of the Business Combination, Founders Preferred Stock was converted into shares of Class A and Class B common stock. No Founders Preferred Stock have been outstanding since the closing of the Business Combination.

#### **Public and Private Warrants**

In March 2021, 3,589,645 Private Warrants and 13,128,671 Public Warrants were exercised, and the Company received \$153.9 million in cash proceeds from the exercise of these warrants. Pursuant to the terms of the agreements governing the rights of the holders of the Public Warrants, the Company redeemed the remaining unexercised and outstanding 204,638 Public Warrants after March 2021 for a redemption price of \$0.01 per Public Warrant.

As of December 31, 2021, the Company had no Public Warrants and 3,077,021 Private Warrants outstanding.

In January 2022 and April 2022, 1,389,529 and 19,223 Private Warrants, respectively, were exercised on a cashless basis and the Company issued401,365 and 4,387 shares of Class A common stock, respectively, pursuant to the exercises. The Company had 1,668,269 Private Warrants outstanding as of December 31, 2022. These Private Warrants expire on December 2, 2025. Each Private Warrant allows the holder to purchase one share of Class A common stock at \$1.50 per share.

### Stock-in-lieu of Cash Program

The Company has entered into arrangements with certain vendors and other third parties wherein the Company at its discretion may elect to pay amounts owed to the respective vendors or third parties for services provided either in cash or by issuing shares of the Company's Class A common stock ("Stock-in-lieu of Cash Program"). During the year ended December 31, 2022, the Company issued 8,824,385 shares of Class A common stock, as part of the Stock-in-lieu of Cash



Program. The Company considers the shares issuable under the Stock-in-lieu of Cash Program as liability classified awards when the arrangement with the vendors requires the Company to issue a variable number of shares to settle amounts owed. As of December 31, 2022, the Company had a total of \$15.2 million in prepaid expenses and other current and non-current assets related to its Stock-in-lieu of Cash Program.

In November 2021, the Company entered into an agreement with Daimler North America Corporation ("Daimler") wherein Daimler is providing certain data and other services to the Company. To compensate Daimler for these services, the Company agreed to issue 1.5 million shares of Class A common stock to Daimler. These shares are subject to certain vesting conditions and vest over a period of two years. The Company recorded costs related to these shares as research and development expense of \$.9 million during the year ended December 31, 2022. During the year ended December 31, 2022, the Company issued 1,125,000 shares of Class A common stock related to this arrangement. The unamortized cost relating to the shares issued to Daimler under this agreement was recorded as \$9.2 million in prepaid expenses and other current and non-current assets as of December 31, 2022.

The Company's vendor Stock-in-lieu of Cash Program activity for the year ended December 31, 2022 was as follows:

	Shares	Weighted Average Grant Date Fair Value per Share
Outstanding as of December 31, 2021	1,500,000	\$ 15.72
Granted	8,824,385	9.93
Vested	(9,277,234)	10.65
Outstanding as of December 31, 2022	1,047,151	11.90

#### Note 12. Stock-based Compensation

Prior to becoming a publicly traded entity, the Company issued incentive stock options, non-qualified stock options, and restricted stock to employees and non-employee consultants under its 2015 Stock Plan (the "2015 Plan"). Since the closing of the Business Combination, the Company has not issued any new stock-based awards under the 2015 Plan.

In December 2020, the Board adopted, and the Company's stockholders approved the 2020 Equity Incentive Plan (the "2020 Plan"). The 2020 Plan became effective upon the closing of the Business Combination. Under the 2020 Plan, the Company was originally authorized to issue a maximum number of 36,588,278 shares of Class A common stock.

In June 2022, the Company's stockholders approved an amendment and restatement of the Company's 2020 Plan (the "Amended 2020 Plan") to increase the number of shares of Class A common stock authorized for issuance by 36,000,000 additional shares and added an evergreen provision under which the number of shares of Class A common stock available for issuance under the Amended 2020 Plan will be increased on the first day of each fiscal year of the Company beginning with the 2023 fiscal year and ending on (and including) the first day of the 2030 fiscal year, in an amount equal to the lesser of (i) 5% of the outstanding shares of common stock on the last day of the immediately preceding fiscal year, (ii) 40,000,000 shares or (iii) such number of shares determined by the Board. Pursuant to the evergreen provision,18,358,365 additional shares of Class A common stock were added to the Amended 2020 Plan on January 1, 2023.

#### Stock Options

Under the terms of the 2015 Plan, incentive stock options had an exercise price at or above the fair market value of the stock on the date of the grant, while nonqualified stock options were permitted to be granted below fair market value of the stock on the date of grant. Stock options granted had service-based vesting conditions only. The service-based vesting conditions varied, though typically, stock options vest over four years with 25% of stock options vesting on the first anniversary of the grant and the remaining 75% vesting monthly over the remaining 36 months. Option holders have a 10-year period to exercise the options before they expire. Forfeitures are recognized in the period of occurrence.

A summary of the Company's stock option activity for the year ended December 31, 2022 was as follows (in thousands, except years and per share data):

	Number of Stock Options	Weigl Aver Exer Pri	age cise	Weighted- Average Remaining Contractual Life (Years)	Aggregate Intrinsic Value
Outstanding as of December 31, 2021	11,507,643	\$	1.72		
Exercised	(2,370,989)		1.67		
Cancelled/Forfeited	(973,804)		1.67		
Outstanding as of December 31, 2022	8,162,850		1.74	7.03 \$	26,763
Vested and exercisable as of December 31, 2022	5,472,821		1.73	6.95 \$	5 17,654
Vested and expected to vest as of December 31, 2022	8,162,850		1.74	7.03 \$	26,763

No stock options were granted by the Company in 2022 or 2021. The weighted-average grant date fair value per share of options granted during the year ended December 31, 2020 was \$0.98. The total grant-date fair value of options that vested during the year ended December 31, 2022, 2021 and 2020 was \$.9 million, \$7.1 million and \$1.4 million, respectively.

The aggregate intrinsic value of stock options exercised during the year ended December 31, 2022 was \$20.6 million. The intrinsic value is calculated as the difference between the exercise price and the fair value of the common stock on the exercise date.

As of December 31, 2022, the Company had \$2.7 million of unrecognized stock-based compensation expense related to stock options. This cost is expected to be recognized over a weighted-average period of 0.63 years.

#### Restricted Stock Awards

Prior to June 30, 2019, the Company granted restricted stock awards ("RSAs") to employees. Recipients purchased the restricted stock on the grant date and the Company has the right to repurchase the restricted shares at the same price recipients paid to obtain those shares. The restrictions lapse solely based on continued service, and generally lapse over 4 years —25% on the first anniversary of the date of issuance, and the remaining 75% monthly over the remaining 36 months. At the grant date of the award, recipients of restricted stock were granted voting rights and right to receive dividends on unvested shares. No restricted stock awards have been granted after June 30, 2019.

Weighted Assesses

The Company's RSAs activity for the year ended December 31, 2022 was as follows:

	Shares	Grant Date Fair Value per Share
Outstanding as of December 31, 2021	666,298	1.21
Forfeited	(18,476)	1.23
Vested	(583,336)	1.20
Outstanding as of December 31, 2022	64,486	1.29

The total grant-date fair value of restricted stock awards vested during the year ended December 31, 2022, 2021 and 2020 was \$0.7 million, \$1.0 million and \$2.2 million, respectively.

As of December 31, 2022, the Company had \$0.1 million of unrecognized stock-based compensation expense related to restricted stock awards, which is expected to be recognized in the first quarter of 2023.

#### Restricted Stock Units

Since the closing of the Business Combination, the Company has granted restricted stock units ("RSUs") under the Amended 2020 Plan (and prior to its amendment and restatement, under the 2020 Plan). Each RSU granted under the Amended 2020 Plan represents a right to receive one share of the Company's Class A common stock when the RSU vests. RSUs generally vest over a period up to six years. The Company has granted certain performance-based equity awards that vest upon achievement of certain performance milestones. The fair value of RSU is equal to the fair value of the Company's common stock on the date of grant.



The Company's RSUs activity for the year ended December 31, 2022 was as follows:

	Shares	Weighted Average Grant Date Fair Value per Share
Outstanding as of December 31, 2021	11,983,032	19.56
Granted	23,213,889	10.29
Forfeited	(2,069,915)	16.15
Vested	(7,532,971)	15.40
Outstanding as of December 31, 2022	25,594,035	12.66

The total fair value of RSUs vested during the year ended December 31, 2022 and 2021 was \$16.0 million and \$32.8 million, respectively.

As of December 31, 2022, the Company had \$277.7 million of unrecognized stock-based compensation expense related to RSUs. This cost is expected to be recognized over a weighted-average period of 1.53 years.

#### Fixed Value Equity Awards

The Company issues fixed value equity awards to certain employees as a part of their compensation package. These awards are issued as RSUs out of the Amended 2020 Plan (and prior to its amendment and restatement, under the 2020 Plan) and are accounted for as liability classified awards under ASC 718 — Stock Compensation. Fixed value equity awards granted have service-based conditions only and vest quarterly over a period a period up to four years. These awards represent a fixed dollar amount settled in a variable number of shares determined at each vesting date. For the year ended December 31, 2022, the Company recorded \$7.6 million in stock-based compensation expense related to these awards.

### Employee Stock Purchase Plan

In December 2020, the Board and the Company's stockholders adopted the 2020 Employee Stock Purchase Plan ("ESPP") under which 7,317,655 shares were authorized for issuance. The 2020 ESPP became effective on February 26, 2021.

The ESPP permits eligible employees to purchase the Company's Class A common stock through payroll deduction with up tol 5% of their pre-tax earnings subject to certain Internal Revenue Code limitations. The purchase price of shares is 85% of the lower of the fair market value of the Company's common stock on the first day of asixmonth offering period, or the relevant purchase date. In addition, no participant may purchase more than5,000 shares of common stock in each purchase period.

During 2022, 168,147 shares were purchased at a weighted average price of \$7.56 per share.

The assumptions used to value purchase rights under the ESPP during the year ended December 31, 2022 were as follows:

	May 16, 2022	November 16, 2022
Expect term (years)	0.5	0.5
Volatility	82.3%	93.5%
Risk-free interest rate	1.54%	4.54%
Dividend yield	%	%

#### **Optogration Milestone Awards**

As discussed in Note 3, as part of the Optogration acquisition in August 2021, the Company owed up to 22.0 million of post combination compensation related to certain service and performance conditions ("Optogration Milestone Awards"). In August 2022, the Company issued 1,632,056 shares of Class A common stock for 1.0 million of the Optogration Milestone Awards due to achievement of the service and performance conditions. As of December 31, 2022, it is probable that the service and performance conditions for the remaining \$11.0 million obligation will be met. The Company recorded \$16.5 million in stock-based compensation expense from inception to December 31, 2022 for Optogration Milestone Awards.

# Freedom Photonics Awards

As part of the Freedom Photonics acquisition in April 2022, the Company owes up to \$8.3 million of post combination compensation related to certain service and performance conditions including achievement of certain technical and financial



milestones. As of December 31, 2022, Freedom Photonics did not achieve a portion of its stipulated financial milestone. As of December 31, 2022, it is probable that the remaining conditions will be met, and as a result, the Company recorded \$7.6 million in stock-based compensation expense through December 31, 2022.

#### Solfice Awards

The Company owes up to \$0.7 million in compensation related to certain service and performance conditions. As of December 31, 2022, it is probable that the conditions will be met, and as a result, the Company recorded \$0.4 million in stock-based compensation expense through December 31, 2022.

### Executive Officer Awards

On May 2, 2022, the Board granted an award of 10.8 million RSUs to Austin Russell, the Company's Chief Executive Officer. The grant date fair value per share was \$8.70 per share. This award represents Mr. Russell's total compensation from the Company. On August 19, 2022, the Board granted500,000 RSUs to each of Thomas Fennimore, the Company's Chief Financial Officer and Alan Prescott, the Company's Chief Legal Officer. The grant date fair value per share.

The Company measured compensation cost for the above executive officer awards using a Monte Carlo simulation model and recorded \$4.7 million in stock-based compensation expense related to these awards in the year ended December 31, 2022. These awards to the executive officers are subject to all of the following vesting conditions:

- Public Market condition: Achievement of three stock price milestones: \$50 or more, \$60 or more, and \$70 or more. The stock price will be measured based on the volume-weighted average price per share for 90 consecutive trading days;
- Service condition: Approximately 7-years of vesting; and
- · Performance condition: Start of production for at least one series production program.

As of December 31, 2022, the Company had \$85.3 million of unrecognized stock-based compensation expense related to RSUs. This cost is expected to be recognized over a weighted-average period of 6.36 years.



### Compensation expense

Stock-based compensation expense by type of award was as follows (in thousands):

	Year Ended December 31,		
	2022	2021	2020
Equity Classified Awards:			
Stock options	\$ 2,660	5 \$ 5,137	\$ 3,179
RSAs	293	3 1,682	5,532
RSUs	129,992	2 60,191	_
ESPP	714	+ <u> </u>	
Liability Classified Awards:			
Equity settled fixed value	7,545	5 3,826	—
Optogration	10,894	6,114	—
Freedom Photonics	7,633	3 —	_
Solfice	410	) —	_
Other	2,258	3 734	
Total	\$ 162,403	5 \$ 77,684	\$ 8,711

Stock-based compensation expense by function was as follows (in thousands):

	Year Ended December 31,				
	 2022		2021		2020
Cost of sales	\$ 7,680	\$	6,422	\$	309
Research and development	40,898		20,216		2,098
Sales and marketing	15,814		4,546		414
General and administrative	98,013		46,500		5,890
Total	\$ 162,405	\$	77,684	\$	8,711

## Note 13. Leases

The Company leases office and manufacturing facilities under non-cancelable operating leases expiring at various dates through September 2028. In October 2021, the Company entered into a lease agreement commencing on April 1, 2022 for a term of 65 months through August 31, 2027. In September 2022, the Company entered into a lease agreement for a term of 66 months through February 2028. Some of the Company's leases includeone or more options to renew, with renewal terms that if exercised by the Company, extend the lease term from one to six years. The exercise of these renewal options is at the Company's discretion. The Company's lease agreements do not contain any material terms and conditions of residual value guarantees or material restrictive covenants. The Company's short-term leases and sublease income were not material.

The Company adopted ASC 842 using the modified retrospective method on January 1, 2021 and elected the available package of practical expedients upon adoption. The most significant impact of the adoption of ASC 842 was the recognition of right-of-use, or ROU, assets and lease liabilities for operating leases of \$10.8 million and \$12.0 million, respectively, and a reversal of deferred rent of \$1.2 million on January 1, 2021. The Company's accounting for finance leases remained substantially unchanged. The adoption of ASC 842 did not have any impact on the Company's operating results or cash flows.

The components of lease expenses were as follows (in thousands):

	Year Ended				
	December 31, 2022 Dec			December 31, 2021	
Operating lease cost	\$	6,533	\$	4,654	
Variable lease cost		2,230		1,703	
Total operating lease cost	\$	8,763	\$	6,357	

Supplemental cash flow information related to leases was as follows (in thousands):

	December 31, 2022			cember 31, 2021
Cash paid for amounts included in the measurement of lease liabilities:				
Cash paid for operating leases included in operating activities	\$	(6,070)	\$	(4,609)
Right of use assets obtained in exchange for lease obligations:				
Operating leases		16,749		2,876
Supplemental balance sheet information related to leases was as follows (in thousands):				
	De	cember 31, 2022	Dec	ember 31, 2021
Operating leases:				
Operating lease right-of-use assets	\$	21,244	\$	9,145
Operating lease liabilities:				
Operating lease liabilities, current	\$	5,953		4,735
Operating lease liabilities, non-current		16,989	)	5,768
Total operating lease liabilities	\$	22,942	\$	10,503
Weighted average remaining terms were as follows (in years):				
	Decembe	er 31, 2022	De	cember 31, 2021
Weighted average remaining lease term				
Operating leases		4.43		2.95
Weighted average discount rates were as follows:				
	December 31,	2022	Dece	mber 31, 2021
Weighted average discount rate				
Operating leases	5.45	%		2.80 %
Maturities of lease liabilities were as follows (in thousands):				
Year Ending December 31,			Ор	erating Leases
2023			\$	6,190
2024				5,123
2025				5,193
2026				4,732

2026	4,732
2027	3,927
Thereafter	1,149
Total lease payments	 26,314
Less: imputed interest	 (3,372)
Total leases liabilities	\$ 22,942

# Note 14. Income Taxes

The following table presents components of loss before provision for (benefit from) income taxes for the periods presented (in thousands):

	Year Ended December 31,				
	2022	2021	2020		
United States	\$ (445,720)	\$ (239,855)	\$ (362,338)		
International	453	607	40		
Loss before provision for (benefit from) income taxes	\$ (445,267)	\$ (239,248)	\$ (362,298)		

Provision for (benefit from) income taxes for the periods presented consisted of (in thousands):

		Year End	ed December 31,		
	 2022		2021	2	2020
Current:	 				
Foreign	440		—		
Total current:	 440		_		
Deferred:	 				
U.S. federal	204		(1,262)		
U.S. state	28		—		
Total deferred:	 232		(1,262)		
Total provision for (benefit from) income taxes	\$ 672	\$	(1,262)	\$	

The reconciliation between the U.S. federal statutory income tax rate of 21% to the Company's effective tax for the periods presented is as follows:

	Year	Ended December 31,	
	2022	2021	2020
U.S. federal provision at statutory rate	21.0 %	21.0 %	21.0 %
State income taxes	5.7	4.4	0.7
Tax credits	2.4	1.5	0.6
Fair value of financial instruments	0.4	(2.3)	(15.6)
Stock-based compensation expense	(3.4)	2.0	(0.4)
Executive compensation	(0.8)	(1.1)	0.0
Other permanent items	0.2	(0.3)	0.0
Uncertain tax benefits	(1.4)	(0.8)	(0.3)
Change in valuation allowance	(24.3)	(24.0)	(6.0)
Effective tax rate	(0.2 %)	0.4 %	0.0 %

The Company's effective tax rates differ from the federal statutory rate primarily due to the change in valuation allowance, non-deductible stock-based compensation expense net of excess windfall stock compensation deductions, nondeductible executive compensation, R&D tax credits, state income taxes and the fluctuation of fair value on instruments treated as debt for GAAP and equity for tax purposes, which is not taxable/deductible for income tax purposes, for 2022, 2021 and 2020.

The Company's deferred income tax assets and liabilities as of December 31, 2022 and 2021 were as follows (in thousands):

	Year Ende	d December 31,
	2022	2021
Deferred tax assets:		
Net operating loss carry forward	\$ 161,881	\$ 120,544
Tax credits	16,322	6,296
Accruals and reserves	3,309	
Stock-based compensation expense	14,535	6,944
Lease liability (ASC 842)	6,268	2,622
Section 174 R&D capitalization	43,240	
Inventory reserves	1,961	617
Depreciation and amortization	2,170	—
Other	20	15
Total deferred tax assets	249,706	137,038
Valuation allowance	(243,811	) (130,569)
Total deferred tax asset	5,895	6,469
Deferred tax liabilities:		
Depreciation and amortization	_	1,185
Prepaid expenses	_	2,983
Other	162	
ROU asset (ASC 842)	5,801	2,301
Total deferred tax liabilities	5,963	6,469
Net deferred tax assets (liabilities)	\$ (68	)\$ —

The Company assesses the realizability of deferred tax assets based on the available evidence, including a history of taxable income and estimates of future taxable income. In assessing the realizability of deferred tax assets, the Company considers whether it is more likely than not that all or some portion of deferred tax assets will not be realized. Due to the history of losses incurred by the Company, management believes it is not more likely than not that substantially all of the deferred tax assets can be realized. Accordingly, the Company established and recorded a full valuation allowance on its net deferred tax assets of \$243.8 million and \$130.6 million as of December 31, 2022 and 2021, respectively. The valuation allowance increased by \$113.2 million in 2022.

No deferred tax liabilities for foreign withholding taxes have been recorded relating to the earnings of the Company's foreign subsidiaries since all such earnings are intended to be indefinitely reinvested. The amount of the unrecognized deferred tax liability associated with these earnings is immaterial.

Utilization of the net operating loss and tax credit carryforwards is subject to a substantial annual limitation due to the "ownership change" limitations provided by Sections 382 and 383 of the Internal Revenue Code of 1986, as amended ("IRC") and other similar state provisions. Any annual limitation may result in the expiration of net operating loss and tax credit carryforwards before utilization. As of December 31, 2022, the Company had \$597.0 million of U.S. federal net operating loss carryforwards available to reduce future taxable income, of which \$553.8 million will be carried forward indefinitely for U.S. federal tax purposes and \$43.2 million will expire beginning in 2035 to 2037. The Company also has \$547.8 million of U.S. state net operating loss carryforwards that will expire beginning in 2036.

The Company also has federal and state research and development ("R&D") tax credit carryforwards of \$21.1 million and \$3.9 million, respectively, as of December 31, 2022. The federal research credit carryforwards will begin expiring in 2035 and although a small portion, less than \$0.05 million, of the state research credit carryforwards will begin expiring in 2023, \$4.3 million of the state research credit carryforwards do not expire.

Under the Tax Cuts and Jobs Act ("TCJA"), for tax years beginning after December 31, 2021, taxpayers are required to capitalize and amortize all R&D expenditures that are paid or incurred in connection with their trade or business which represent costs in the experimental or laboratory sense. Specifically, costs for U.S.-based R&D activities must be amortized over 5 years and costs for foreign R&D activities must be amortized over 5 years. As of December 31, 2022, there is

insufficient Internal Revenue Service guidance on how to treat capitalizable R&D expenditures. The Company will continue to monitor the status of any new guidance that might be issued and will update its estimated capitalized R&D, accordingly.

Beginning January 1, 2022, the TCJA eliminated the option to deduct research and development expenditures in the current year and requires taxpayers to capitalize such expenses pursuant to IRC Section 174. The capitalized expenses are amortized over a 5-year period for domestic expenses and a 15-year period for foreign expenses. As a result of this provision of the TCJA, deferred tax assets related to capitalized research expenses increased by \$43.2 million.

#### **Unrecognized Tax Benefits**

The Company reports income tax related interest and penalties within its provision for income tax in its consolidated statements of operations. The Company hadio interest and penalties accrued through December 31, 2022. The Company does not expect the total amount of unrecognized tax benefits will significantly increase or decrease within 12 months of the reporting date.

The following is a tabular reconciliation of the total amounts of unrecognized tax benefits (in thousands):

	Year Ended December 31,				
	 2022	2021	2020		
Unrecognized tax benefits as of the beginning of the year	\$ 6,296	\$ 3,975	\$ 2,397		
Increases related to prior year tax positions	_	535	327		
Decreases related to prior year tax provisions	(3,723)	_	_		
Increase related to current year tax positions	6,031	1,786	1,251		
Unrecognized tax benefits as of the end of the year	\$ 8,604	\$ 6,296	\$ 3,975		

None of the Company's unrecognized tax benefits, if recognized, would affect the effective tax rate since the tax benefits would increase a deferred tax asset that is currently fully offset by a full valuation allowance. The Company and its subsidiaries file federal, state and foreign income tax returns. In the normal course of business, the Company is subject to examination by taxing authorities, for which the Company's major tax jurisdictions are the United States and various states. The Company's federal, state and foreign income tax returns from inception to December 31, 2022 remain subject to examination.

### Note 15. Commitments and Contingencies

#### **Purchase Obligations**

The Company purchases goods and services from a variety of suppliers in the ordinary course of business. Purchase obligations are defined as agreements that are enforceable and legally binding and that specify all significant terms, including fixed or minimum quantities to be purchased, fixed, minimum, or variable price provisions, and the approximate timing of the transaction. The Company had purchase obligations primarily for purchases of inventory, R&D, and general and administrative activities totaling \$96.0 million as of December 31, 2022.

### Legal Matters

From time to time, the Company is involved in actions, claims, suits and other proceedings in the ordinary course of business, including assertions by third parties relating to intellectual property infringement, breaches of contract or warranties or employment-related matters. When it is both probable that a liability has been incurred and the amount of the loss can be reasonably estimated, the Company records a liability for such loss contingencies. The Company's estimates regarding potential losses and materiality are based on the Company's judgment and assessment of the claims utilizing currently available information. Although the Company will continue to reassess its reserves and estimates based on future developments, the Company's objective assessment of the legal merits of such claims may not always be predictive of the outcome and actual results may vary from the Company's current estimates. The Company's current legal accrual is not material to the financial statements.

## Note 16. Segment and Customer Concentration Information

Reportable segments are (i) Autonomy Solutions and (ii) ATS. These segments reflect the way the chief operating decision maker ("CODM") evaluates the Company's business performance and manages its operations. Each segment has distinct product offerings, customers and market penetration. The Chief Executive Officer is the CODM of the Company.



## Autonomy Solutions

This segment manufactures and distributes commercial lidar sensors that measure distance using laser light for automotive mobility applications. This segment is impacted by trends in the autonomous vehicles and associated infrastructure/technology sector.

### ATS

This segment is in the business of development of semiconductor technology based lasers and sensors. This segment also designs, tests and provides consulting services for development of integrated circuits. This segment is impacted by trends in and the strength of the automobile and aeronautics sector as well as government spending in military and defense activities.

The accounting policies of the operating segments are the same as those described in Note 2. Segment operating results and reconciliations to the Company's consolidated balances are as follows (in thousands):

Year ended December 31, 2022								
		Autonomy Solutions		ATS		Total reportable segments	Eliminations (1)	Total Consolidated
Revenue:								
Revenues from external customers	\$	24,353	\$	16,345	\$	40,698	\$ _	\$ 40,698
Revenues from internal customer		14,748		12,485		27,233	(27,233)	_
Total Revenue	\$	39,101	\$	28,830	\$	67,931	\$ (27,233)	\$ 40,698
Depreciation and amortization	\$	4,110	\$	2,456	\$	6,566	\$ _	\$ 6,566
Operating gain (loss)		(412,673)		(29,394)		(442,067)	(335)	(442,402)
Other significant items:								
Segment assets		752,088		60,529		812,617	(125,290)	687,327
Inventories, net		8,664		474		9,138	(346)	8,792

	Year ended December 31, 2021									
		Autonomy Solutions		ATS		Total reportable segments		Eliminations (1)		Total Consolidated
Revenue:							_		_	
Revenues from external customers	\$	28,497	\$	3,447	\$	31,944	\$	_	\$	31,944
Revenues from internal customer		8,098		5,929		14,027		(14,027)		_
Total Revenue	\$	36,595	\$	9,376	\$	45,971	\$	(14,027)	\$	31,944
Depreciation and amortization	\$	3,723	\$	439	\$	4,162	\$	_	\$	4,162
Operating gain (loss)		(214,133)		(324)		(214,457)		(95)		(214,552)
Other significant items:										
Segment assets		882,704		9,771		892,475		(8,939)		883,536
Inventories, net		10,179		163		10,342		—		10,342



### Year ended December 31, 2020

	Autonomy Solutions	ATS	Total reportable segments	Eliminations (1)	Total Consolidated
Revenue:					
Revenues from external customers	\$ 11,387	\$ 2,564	\$ 13,951	\$ _	\$ 13,951
Revenues from internal customer	1,516	3,248	4,764	(4,764)	_
Total Revenue	\$ 12,903	\$ 5,812	\$ 18,715	\$ (4,764)	\$ 13,951
Depreciation and amortization	\$ 2,395	\$ 128	\$ 2,523	\$ (6)	\$ 2,517
Operating gain (loss)	(86,661)	(316)	(86,977)	102	(86,875)
Other significant items:					
Segment assets	511,676	2,975	514,651	(4,300)	510,351
Inventories, net	3,604	9	3,613	—	3,613

(1) Represent the eliminations of all intercompany balances and transactions during the period presented.

Two customers accounted for 21%, and 17% of the Company's revenue for the year ended December 31, 2022. Two customers accounted for42% and 17% of the Company's revenue for the year ended December 31, 2021. One customer accounted for 64% of the Company's revenue for the year ended December 31, 2020.

### Note 17. Related Party Transactions

### **Equity Investments**

In February 2021, the Company invested \$15.0 million in a special purpose acquisition company, of which Mr. Jun Hong Heng, was the Chairman and Chief Executive Officer, and a principal shareholder. Mr. Heng became a director of the Company in June 2021. The terms of such investment were no less favorable to the Company than to other third party investors. During 2021, the Company sold \$2.9 million of this investment and had a remaining balance of \$12.1 million as of December 31, 2021. The fair value of this investment as of December 31, 2021 was \$12.2 million, which was included in marketable securities in the balance sheet. The Company sold this investment in its entirety in the second quarter of 2022. The special purpose acquisition company merged with ECARX on December 20, 2022 and Mr. Heng continues to be a director of the merged company.

In June 2022, the Company invested in a special purpose acquisition company through open market purchases, of which Mr. Alec Gores was the Chairman and Chief Executive Officer, and a principal shareholder. The special purpose acquisition company merged with Polestar Automotive Holdings UK PLC on June 24, 2022 and Mr. Gores continues to be a director of the merged company. Mr. Gores is a director of Luminar as well. The balance of this investment as of December 31, 2022 was not material.

#### Note 18. Subsequent Events

In preparing the audited consolidated financial statements as of December 31, 2022, the Company has evaluated subsequent events through February 28, 2023.

In January 2023, the Company executed an asset purchase agreement with Seagate Technology LLC and Seagate Singapore International Headquarters Pte. Ltd. (individually and collectively, "Seagate") and concurrently completed the acquisition of certain fixed assets, inventory and intellectual property related to Seagate's lidar-related projects and obtained a license to certain patents and other intangibles for an aggregate cash consideration of \$12.6 million. Additionally, the Company hired certain former employees of Seagate who had been working on the above projects.

In February 2023, the Company executed an agreement with Swiss Re Solutions Ltd ("Swiss Re") for use of certain of Swiss Re's tools and services for assessment of the Company's technology for purposes of potentially developing an insurance product and Swiss Re potentially providing reinsurance and other services. The Company agreed to pay Swiss Re \$4.0 million in consideration for these services over 4 years, of which \$1.0 million is non-cancelable. The Company may at its sole discretion pay the consideration owed to Swiss Re either in cash or shares of Class A common stock.



## ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE.

None.

### ITEM 9A. CONTROLS AND PROCEDURES.

#### **Evaluation of Disclosure Controls and Procedures**

We have established disclosure controls and procedures that are designed to ensure that the information required to be disclosed by us in the reports that we file or submit under the Exchange Act and other securities laws is recorded, processed, summarized and reported within the time periods specified in SEC rules and forms and that such information is accumulated and communicated to management, including our principal executive officer and principal financial officer, as appropriate to allow timely decision making and timely required disclosure to investors.

Under the supervision and with the participation of our management, including our principal executive officer and principal financial officer, we have evaluated the effectiveness of our disclosure controls and procedures as required under Rules 13a-15(e) and 15d-15(e) under the Exchange Act as of December 31, 2022. Based on this evaluation, our principal executive officer and principal financial officer have concluded that our disclosure controls and procedures as of December 31, 2022.

## Management's Report on Internal Control Over Financial Reporting

Management, including our CEO and CFO, is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act and based upon the criteria established in Internal Control-Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission ("the COSO framework"). Our internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of our financial reporting and the preparation of our financial statements for external purposes in accordance with U.S. GAAP.

Management's internal control system provides reasonable assurance with respect to the preparation and fair presentation of financial statements, but has inherent limitations that may not prevent or detect all misstatements, including the possibility of human error, circumvention of controls, or fraud.

Under the supervision and with the participation of our management, including our CEO and CFO, we have conducted an evaluation of the effectiveness of our internal control over financial reporting based on the COSO framework. Based on evaluation under these criteria, management has concluded that our internal control over financial reporting was effective as of December 31, 2022 to provide reasonable assurance regarding the reliability of financial reporting and preparation of consolidated financial statements in accordance with U.S. GAAP.

Our evaluation of the effectiveness of our internal control over financial reporting as of December 31, 2022, did not include the internal controls of Freedom Photonics. We excluded Freedom Photonics from our assessment of internal control over financial reporting as of December 31, 2022 because it was acquired in a business combination on April 13, 2022. Freedom Photonics is a wholly owned subsidiary whose total assets represent approximately 5%, total operating expenses represent approximately 5% and revenue represents 28% of the related consolidated financial statement amounts as of and for the year ended December 31, 2022.

The effectiveness of our internal control over financial reporting as of December 31, 2022 has been audited by Deloitte & Touche LLP, an independent registered public accounting firm, and their opinion is stated in their report which is included in this Annual Report on Form 10-K.

### **Remediation of Prior Year Material Weaknesses**

The material weaknesses as previously disclosed in our Annual Report on Form 10-K for the year ended December 31, 2021, have been remediated. Since that time, our management, with the oversight of the audit committee of our Board of Directors, engaged in efforts to remediate the material weaknesses by implementing new and enhanced procedures and controls, including:

An oversight mechanism was established to define responsibilities to achieve control objectives and hold individuals accountable for their internal control responsibilities. A number of qualified personnel, including a new Chief Accounting Officer, Corporate Controller, and Assistant Corporate Controller, within the accounting function were hired and effectively leading their respective functions for sufficient period to ensure GAAP principles are appropriately applied to the recording of accounting transactions.

- An internal audit function was established in-house with a new VP and Director, Internal Audit to strengthen oversight of the team and improve the design, implementation, execution and supervision of internal controls within the organization.
- The design of the controls was enhanced, new controls were implemented to provide reasonable assurance regarding the reliability of financial reporting and the
  preparation of financial statements, training was provided, and documentation and supervisory reviews were strengthened by management. Policies were updated and
  reviewed to establish expectations and procedures. Controls were implemented to monitor adherence to policies.
- User access controls related to the general ledger, automated business controls, and service organization controls were redesigned and enhanced to provide reasonable assurance over the information used in the control.
- An appropriate monitoring framework was designed to periodically evaluate the Company's internal control over financial reporting.
- Access and segregation of duties related to Information Technology General Controls were enhanced. Standardization and automations were implemented within the
  accounting processes to improve the reliability of information.
- Training was provided and new controls were implemented along with strengthening existing controls to enhance oversight over review and approval of manual journal entries.

These controls are adequately designed and have operated effectively for a sufficient period during 2022. Accordingly, the material weaknesses were determined to be remediated as of December 31, 2022.

### Inherent Limitations on Effectiveness of Controls

Our management, including our principal executive officer and our principal financial officer, has determined that our internal controls are reasonably designed and implemented to assure reliable financial reporting and preparation of our financial statements. However, no control system can prevent and detect all errors and fraud. The design of any system of controls is based in part on certain assumptions about the likelihood of future events and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Projections of any evaluation of the effectiveness of controls to future periods are subject to risks. Over time, controls may become inadequate because of changes in conditions or deterioration in the degree of compliance with policies or procedures.

#### **Changes in Internal Control Over Financial Reporting**

Other than the remediation of the material weaknesses in the internal controls described above, there were no changes in our internal control over financial reporting during the quarter ended December 31, 2022 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

## REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the stockholders and the Board of Directors of Luminar Technologies, Inc.

## **Opinion on Internal Control over Financial Reporting**

We have audited the internal control over financial reporting of Luminar Technologies, Inc. and subsidiaries (the "Company") as of December 31, 2022, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). In our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2022, based on criteria established in *Internal Control — Integrated Framework (2013)* issued by COSO.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the consolidated financial statements as of and for the year ended December 31, 2022, of the Company and our report dated February 28, 2023, expressed an unqualified opinion on those financial statements.

As described in Management's Report on Internal Control Over Financial Reporting, management excluded from its assessment the internal control over financial reporting at Freedom Photonics, which was acquired on April 13, 2022, and whose financial statements constitute 5% of total assets, 28% of revenues, and 5% of operating expenses, respectively of the consolidated financial statement amounts as of and for the year ended December 31, 2022. Accordingly, our audit did not include the internal control over financial reporting at Freedom Photonics.

### **Basis for Opinion**

The Company's management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Report on Internal Control Over Financial Reporting. Our responsibility is to express an opinion on the Company's internal control



over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects. Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

#### Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Deloitte & Touche LLP

San Jose, California February 28, 2023

### **ITEM 9B. OTHER INFORMATION.**

The information below is reported in lieu of information that would be reported under Items 1.01 and 8.01 under Form 8-K.

On February 28, 2023, the Company entered into a Financing Agreement (the "Sales Agreement") with Virtu Americas LLC (the "Agent") under which the Company may offer and sell, from time to time in its sole discretion, shares (the "Shares") of the Company's Class A common stock, par value \$0.0001 per share (the "Class A Common Stock"), with aggregate gross sales proceeds of up to \$75,000,000 through an "at the market" equity offering program under which Virtu Americas LLC will act as sales agent.

Under the Sales Agreement, the Company will set the parameters for the sale of the Shares, including the number of Shares to be issued, the time period during which sales are requested to be made, limitations on the number of Shares that may be sold in any one trading day and any minimum price below which sales may not be made. Subject to the terms and conditions of the Sales Agreement, the Agent has agreed to use its commercially reasonable efforts, consistent with its normal trading and sales practices, to sell the Shares by methods deemed to be an "at the market" offering as defined in Rule 415 promulgated under the Securities Act of 1933, as amended, including sales made through The Nasdaq Global Select Market.

The Sales Agreement provides that the Agent will be entitled to compensation for its services equal to up to 2% of the gross proceeds of any shares of Class A Common Stock sold through the Agent under the Sales Agreement and the Company will reimburse the Agent for certain expenses incurred in connection with its services under the Sales Agreement, including reasonable legal fees in connection with the establishment of the at the market offering. The Company has no obligation to sell any Shares under the Sales Agreement, and may at any time suspend solicitation and offers under the Sales Agreement. The offering of Shares pursuant to the Sales Agreement will terminate upon the earlier of (i) the sale of all Shares subject to the Sales Agreement or (ii) termination of the Sales Agreement in accordance with its terms.

The shares will be issued pursuant to the Company's shelf registration statement on Form S-3 (File No. 333-262250), as amended by that certain Amendment No. 1 filed on February 1, 2022, which was declared effective by the Securities and Exchange Commission (the "SEC") on February 3, 2022. The Company will file a prospectus supplement with the SEC in connection with the offer and sale of the Shares pursuant to the Sales Agreement.



The foregoing description of the Sales Agreement does not purport to be complete and is qualified in its entirety by reference to the full text of the Sales Agreement. A copy of the Sales Agreement is filed with this Annual Report on Form 10-K as Exhibit 10.4 and is incorporated herein by reference.

A copy of the legal opinion of Orrick, Herrington & Sutcliffe LLP, relating to the validity of the Shares that may be sold pursuant to the Sales Agreement, is filed with this Annual Report on Form 10-K as Exhibit 5.1.

This information set forth under this Item 9B shall not constitute an offer to sell or the solicitation of any offer to buy the securities discussed herein, nor shall there be any offer, solicitation or sale of the securities in any state in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state.

## ITEM 9C. DISCLOSURE REGARDING FOREIGN JURISDICTIONS THAT PREVENT INSPECTIONS.

Not applicable.

## PART III

### ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE.

The information required by this item will be included under the captions "Board of Directors and Corporate Governance," "Proposal One: Election of Directors" and "Executive Officers" in our Proxy Statement for the 2023 Annual Meeting of Stockholders to be filed with the SEC within 120 days of the year ended December 31, 2022 and is incorporated herein by reference.

#### **Code of Business Conduct and Ethics**

We have adopted a Code of Business Conduct and Ethics that applies to all of the members of our board of directors, officers and employees, including our principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions. Our Code of Business Conduct and Ethics is posted on the Investor Relations section of our website, which is located at https://investors.luminartech.com by clicking on "Governance Documents" in the "Governance" section of our website. We intend to satisfy the disclosure requirement under Item 5.05 of Form 8-K regarding amendment to, or waiver from, a provision of our Code of Business Conduct and Ethics by posting such information on our website at the location specified above.

### ITEM 11. EXECUTIVE COMPENSATION.

The information required by this item will be included under the captions "Board of Directors and Corporate Governance" and "Executive Compensation" in our Proxy Statement for the 2023 Annual Meeting of Stockholders to be filed with the SEC within 120 days of the year ended December 31, 2022 and is incorporated herein by reference.

### ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS.

The information required by this item will be included under the captions "Equity Compensation Plan Information" and "Security Ownership of Certain Beneficial Owners and Management" in our Proxy Statement for the 2023 Annual Meeting of Stockholders to be filed with the SEC within 120 days of the year ended December 31, 2022 and is incorporated herein by reference.

### ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS AND DIRECTOR INDEPENDENCE.

The information required by this item will be included under the captions "Board of Directors and Corporate Governance" and "Certain Relationships and Related Party Transactions" in our Proxy Statement for the 2023 Annual Meeting of Stockholders to be filed with the SEC within 120 days of the year ended December 31, 2022 and is incorporated herein by reference.

## ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES.

The information required by this item will be included under the caption "Proposal Two: Ratification of Appointment of Independent Registered Public Accounting Firm" in our Proxy Statement for the 2023 Annual Meeting of Stockholders to be filed with the SEC within 120 days of the year ended December 31, 2022 and is incorporated herein by reference.

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## PART IV

# ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES.

The following documents are filed as part of this report:

1. Financial Statements. The financial statements included in "Index to the Consolidated Financial Statements" in Part II, Item 8 are filed as part of this Annual Report on Form 10-K.

2. Financial Statement Schedules. None.

3. Exhibits. Exhibits listed in the accompanying index to exhibits are filed or incorporated by reference as part of this Annual Report on Form 10-K.

			Incorpo	ration by Reference		
Exhibit	—		File	Exhibit/Appendix		File
mber	Description	Form	Number	Reference	Filing Date	Herewith
2.1*	Agreement and Plan of Merger, dated as of August 24, 2020, by and among Gores Metropoulos, Inc., Dawn Merger Sub, Inc., Dawn Merger Sub II, LLC., and the Company.	8-K/A	001-38791	2.1	12/8/20	
3.1	Second Amended and Restated Certificate of Incorporation of the Company.	8-K/A	001-38791	3.1	12/8/20	
					12/8/20	
3.2	Amended and Restated By-Laws of the Company.	8-K/A	001-38791	3.2	12/8/20	
		/ .			12/8/20	
4.1	Specimen Class A Common Stock Certificate.	8-K/A	001-38791	4.1	12/8/20	
10	We many the second state of Lemma 21	0 12 / 4	001 20701	4.2	12/8/20	
4.2	Warrant Agreement, dated January 31, 2019, between Continental Stock Transfer & Trust Company and Gores Metropoulos, Inc.	8-K/A	001-38791	4.2	12/8/20	
					12/8/20	
4.3	Specimen Warrant Certificate.	8-K/A	001-38791	4.3	12/8/20	
					12/8/20	
4.4	Description of Securities.	10-K	001-38791	4.4	03/1/22	
4.5	Indenture, dated as of December 17, 2021, by and between the Company and U.S.	8-K	001-38791	4.1	12/17/21	
	Bank National Association, as trustee (1.25% Convertible Senior Notes due 2026).					
4.6	Amended Warrant Agreement, dated January 11, 2022, by and among the Company, Continental Stock Transfer & Trust Company, and American Stock Transfer & Trust Company.	10-K	001-38791	4.7	03/1/22	
5.1	<u>Opinion of Orrick, Herrington &amp;</u> Sutcliffe LLP.					Х
10.1	Amended and Restated Registration Rights Agreement, dated as of December 2, 2020, by and among the Company, Gores Metropoulos Sponsor LLC and certain other parties.	8-K/A	001-38791	10.1	12/8/20	
					12/8/20	
10.2	Form of Secondary Lock-Up Agreement.	8-K/A	001-38791	10.4	12/8/20	
	Agreement.				12/8/20	
10.3	Form of Indemnification Agreement.	8-K/A	001-38791	10.5	12/8/20	
		0-10/11	001-50791	10.5	12/0/20	Х
10.4	Financing Agreement, dated as of February 28, 2023, between the Company and Virtu Americas LLC.					А
					12/8/20	
10.5†	Luminar Technologies, Inc. Management Longer Term Equity Incentive Plan.	8-K/A	001-38791	10.6	12/8/20	
10 44						v
10.6†	Luminar Technologies, Inc. Amended and Restated 2020 Equity Incentive Plan and related forms of award agreements.					Х
					12/8/20	

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10.7†	Luminar Technologies, Inc. 2020 Employee Stock Purchase Plan.	8-K/A	001-38791	10.8	12/8/20
10.8†	Luminar Technologies, Inc. Amended and	8-K/A	001-38791	10.9	12/8/20 12/8/20
10.9	Restated 2015 Stock Plan. Voting Agreement, dated August 24, 2020,	8-K/A	001-38791	10.10	12/8/20
1012	by and between Luminar Technologies, Inc. ( <i>ftkia</i> Gores Metropoulos, Inc.) and Austin Russell (incorporated by reference to Annex G to the Company's Registration Statement on Form S-4/A (Registration No. 333-248794), filed with the Securities and Exchange Commission on October 23, 2020).				12/0/20
10.10	Offer Letter by and between Luminar Technologies, Inc. and Thomas J. Fennimore dated April 3, 2020 (incorporated by reference to Exhibit 10.13 to the Company's Registration Statement on Form S-1/A, (Registration No. 333-251657) filed with the SEC on January 13, 2021).	S-1/A	333-251657	10.10	01/29/21
10.11	Luminar Technologies, Inc. Director Compensation Policy.	10-К	001-38791	10.14	04/14/21
10.12	Form of certificate representing the 1.25% Convertible Senior Notes due 2026.	8-K	001-38791	4.1	12/8/20 12/17/21
10.13	<u>Framework Purchase Agreement, dated</u> March 23, 2020 by and between Volvo Car Corporation and the Company.	S-4/A	333-248794	10.8	10/23/20
10.14	Amendment No. 1 to Framework Purchase Agreement, dated June 24, 2021, by and between Volvo Car Corporation and the Company.	10-Q	001-38791	10.1	08/13/21
10.15†	Amended and Restated Offer Letter by and between the Company and Alan Prescott dated November 11, 2021.	10-Q	001-38791	10.1	11/15/21
10.16	Lease Agreement, dated February 15, 2018, by and between 2603 Discovery Lakes LLC and the Company.	S-4/A	333-248794	10.9	10/23/20
21.1	List of Subsidiaries.				
23.1	Consent of Deloitte & Touche LLP.				
23.2	Consent of Orrick, Herrington & Sutcliffe LLP (included in Exhibit 5.1).				
24.1	Power of Attorney (included on signature page).				
31.1	Certification of Principal Executive Officer pursuant to Rules 13a-14(a) and 15(d)-14(a) under the Securities Exchange Act of 1934, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				
31.2	Certification of Principal Financial Officer pursuant to Rules 13a-14(a) and 15(d)-14(a) under the Securities Exchange Act of 1934, as adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.				
32.1	Certification of Principal Executive Officer and Principal Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxlev Act of 2002.				
101 101					
101.INS	XBRL Instance Document.				

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Furnished herewith

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101.SCH	XBRL Taxonomy Extension Schema Document,	Х
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document.	Х
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document.	Х
101.LAB	XBRL Taxonomy Extension Label Linkbase Document.	Х
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document.	Х
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101).	Х

\* The schedules to this Exhibit have been omitted in accordance with Regulation S-K Item 601(b)(2). The Company agrees to furnish supplementally a copy of any omitted schedule to the Securities and Exchange Commission upon its request.
† Indicates a management contract or compensatory plan, contract or arrangement.

# ITEM 16. FORM 10-K SUMMARY.

None provided.

### SIGNATURES.

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

	Luminar	l echnologies, Inc.	
Date: February 28, 2023	By:	/s/ Thomas J. Fennimore	
		Thomas J. Fennimore	
		Chief Financial Officer	

(Principal Financial Officer)

### POWER OF ATTORNEY.

KNOW ALL PERSONS BY THESE PRESENTS that each individual whose signature appears below constitutes and appoints Austin Russell and Thomas J. Fennimore, and each of them, severally, as his or her true and lawful attorneys-in-fact and agents with the power to act, with or without the other, with full power of substitution and resubstitution, for him or her and in his or her name, place and stead, in his or her capacity as a director or officer or both, as the case may be, of the Company, to sign any and all amendments to this Annual Report on Form 10-K, and to file the same, with exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that each of said attorneys-in-fact and agents, or his substitute or substitutes may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated.

Signature	Title	Date
/s/ Austin Russell Austin Russell	President, Chief Executive Officer and Chairman of the Board of Directors (Principal Executive Officer)	February 28, 2023
/s/ Thomas J. Fennimore Thomas J. Fennimore	Chief Financial Officer (Principal Financial and Accounting Officer)	February 28, 2023
/s/ Alec E. Gores Alec E. Gores	Director	February 28, 2023
/s/ Jun Hong Heng Jun Hong Heng	Director	February 28, 2023
/s/ Mary Lou Jepsen, PhD Mary Lou Jepsen, PhD	Director	February 28, 2023
/s/ Shaun Maguire, PhD Shaun Maguire, PhD	Director	February 28, 2023
/s/ Katharine A. Martin Katharine A. Martin	Director	February 28, 2023
/s/ Matthew J. Simoncini Matthew J. Simoncini	Director	February 28, 2023
/s/ Daniel D. Tempesta Daniel D. Tempesta	Director	February 28, 2023



Exhibit 5.1



Orrick, Herrington & Sutcliffe LLP 631 WILSHIRE BOULEVARD SUITE 2C SANTA MONICA, CA 90401 +1-310-633-2800 orrick.com

February 28, 2023

Luminar Technologies, Inc. 2603 Discovery Drive, Suite 100 Orlando, CA 32826

Re: Luminar Technologies, Inc. Registration Statement on Form S-3

Ladies and Gentlemen:

We have acted as counsel to Luminar Technologies, Inc., a Delaware corporation (the "Company"), in connection with the offer and sale by the Company of up to \$75,000,000 of shares of the Company's Class A common stock, par value \$0.0001 (the "Shares"), pursuant to a registration statement on Form S-3 (Registration Statement No. 333-262250) filed with the Securities and Exchange Commission (the "Commission") under the Securities Act of 1933, as amended (the "Act") on January 20, 2022, as amended on February 1, 2022 and declared effective on February 3, 2022 (the "Registration Statement"), the prospectus dated February 3, 2022 (the "Base Prospectus"), and a prospectus supplement to be filed with the Commission pursuant to Rule 424(b) of the rules and regulations of the Act (the "Prospectus Supplement"). The Base Prospectus and the Prospectus Supplement are collectively referred to as the "Prospectus." The Shares are to be sold by the Company pursuant to the Financing Agreement (the "Sales Agreement") dated February 28, 2023, by and between the Company and Virtu Americas LLC.

In connection with rendering this opinion, we have examined and relied upon originals or copies, certified or otherwise identified to our satisfaction, of (i) the Second Amended and Restated Certificate of Incorporation of the Company, as amended through the date hereof, (ii) the Amended and Restated Bylaws of the Company, as amended through the date hereof, (iii) certain resolutions of the Board of Directors of the Company relating to the issuance, sale and registration of the Shares, (iv) the Registration Statement, (v) the Base Prospectus and a substantially final form of Prospectus Supplement, (vi) the Sales Agreement, and (vii) such corporate records of the Company, certificates of public officials, officers of the Company and other persons, and such other documents, agreements and instruments as we have deemed relevant and necessary or appropriate as a basis for the opinion set forth below.

In our examination, we have assumed the legal capacity of all natural persons, the genuineness of all signatures, the authenticity of all documents submitted to us as originals, the conformity to original documents of all documents submitted to us as facsimile, electronic, certified or photostatic copies, and the authenticity of the originals of such copies. In making our examination of documents executed or to be executed, we have assumed that the parties thereto, other than the Company, had or will have the power, corporate or other, to enter into and perform all obligations thereunder and have also assumed the due authorization by all requisite action, corporate or other, and the execution and delivery by such parties of such documents and the validity and binding effect thereof on such parties. As to any facts material to the opinions expressed herein that we did not independently establish or verify, we have relied upon statements and representations of officiers and other representatives of the Company and others and of public officials.

Based upon the foregoing and subject to the limitations, qualifications and assumptions set forth herein, we are of the opinion that the Shares have been duly authorized and, upon issuance, delivery and payment therefor in accordance with the Sales Agreement, will be validly issued, fully paid and non-assessable.

The opinion expressed herein is limited to the General Corporation Law of the State of Delaware and the federal laws of the United States of America, and we express no opinion as to the effect on the matters covered by this letter of the laws of any other jurisdictions.

We hereby consent to the filing of this opinion letter as an exhibit to the Company's Annual Report on Form 10-K filed on or about March 1, 2023 for incorporation by reference into the Registration Statement. In giving such consent, we do not hereby admit that we are included in the category of persons whose consent is required under Section 7 of the Act or the rules and regulations of the Commission promulgated thereunder.

Very truly yours,

/s/ Orrick, Herrington & Sutcliffe LLP

Orrick, Herrington & Sutcliffe LLP

# LUMINAR TECHNOLOGIES, INC.

Class A Common Stock (par value \$0.0001 per share)

# **Financing Agreement**

Virtu Americas LLC 1633 Broadway New York, NY 10019

Ladies and Gentlemen:

Luminar Technologies, Inc., a Delaware corporation (the "<u>Company</u>"), confirms its agreement (this "<u>Agreement</u>") with Virtu Americas LLC (the "<u>Agent</u>") as set forth below, for the purpose of establishing a financing program (the "Program"):

1. <u>Issuance and Sale of Shares</u>. The Company agrees that, from time to time during

the term of this Agreement, on the terms and subject to the conditions set forth herein, it may issue and sell through or to the Agent, as sales agent or principal, shares (the "<u>Placement Shares</u>") of the Company's Class A common stock, par value \$0.0001 per share (the "<u>Common Stock</u>"); *provided however*, that in no event shall the Company issue or sell through the Agent such number of Placement Shares that (a) exceeds the number of shares or dollar amount of Common Stock registered on the effective Registration Statement (as defined below) pursuant to which the offering is being made or (b) exceeds the number of shares or dollar amount registered on the Prospectus Supplement (as defined below) (the lesser of (a) or (b) the "<u>Maximum Amount</u>") and *provided further, however*, that in no event shall the aggregate number of Placement Shares sold pursuant to this Agreement exceed the number of authorized but unissued shares of Common Stock. Notwithstanding anything to the contrary contained herein, the parties hereto agree that compliance with the limitations set forth in this <u>Section 1</u> on the number of Placement Shares issued and sold under this Agreement shall be the sole responsibility of the Company and that the Agent shall have no obligation in connection with such compliance. The issuance and sale of Placement Shares through the Agent will be effected pursuant to the Registration Statement (as defined below), although nothing in this Agreement shall be construed as requiring the Company to use the Registration Statement to issue any Placement Shares.

The Company has filed, in accordance with the provisions of the Securities Act of 1933, as amended and the rules and regulations thereunder (the "Securities Act"), with the Securities and Exchange Commission (the "Commission"), a registration statement on Form S-3 (File No. 333-262250), including a base prospectus, relating to certain securities including the Placement Shares to be issued from time to time by the Company, and which incorporates by reference

February 28, 2023

documents that the Company has filed or will file in accordance with the provisions of the Securities Exchange Act of 1934, as amended and the rules and regulations thereunder (the "Exchange Act"). The Company has prepared a prospectus or prospectus supplement to the base prospectus to be included as part of such registration statement specifically relating to the Placement Shares and to be filed pursuant to Rule 424(b) under the Securities Act (the "Prospectus Supplement"). The Company will furnish to the Agent, for use by the Agent, copies of the base prospectus included as part of such registration statement, as supplemented by the Prospectus Supplement, relating to the Placement Shares. Except where the context otherwise requires, such registration statement, and any post-effective amendment thereto, including all documents filed as part thereof or incorporated by reference therein, and including any information contained in a Prospectus (as defined below) subsequently filed with the Commission pursuant to Rule 424(b) under the Securities Act or deemed to be a part of such registration statement pursuant to Rule 430B of the Securities Act, or any subsequent registration statement on Form S-3 filed pursuant to Rule 415(a)(6) under the Securities Act by the Company to cover any Placement Shares, is herein called the "Registration Statement." The base prospectus, including all documents incorporated or deemed incorporated therein by reference to the extent such information has not been superseded or modified in accordance with Rule 412 under the Securities Act (as qualified by Rule 430B(g) of the Securities Act), included in the Registration Statement, as it may be supplemented by the Prospectus Supplement, in the form in which such base prospectus and/or Prospectus Supplement have most recently been filed by the Company with the Commission pursuant to Rule 424(b) under the Securities Act is herein called the "Prospectus." Any reference herein to the Registration Statement, the Prospectus or any amendment or supplement thereto shall be deemed to refer to and include the documents incorporated by reference therein, and any reference herein to the terms "amend," "amendment" or "supplement" with respect to the Registration Statement or the Prospectus shall be deemed to refer to and include the filing after the execution hereof of any document with the Commission incorporated by reference therein (the "Incorporated Documents").

For purposes of this Agreement, all references to the Registration Statement, the Prospectus or to any amendment or supplement thereto shall be deemed to include the most recent copy filed with the Commission pursuant to its Electronic Data Gathering Analysis and Retrieval System, or if applicable, the Interactive Data Electronic Application system when used by the Commission (collectively, "<u>EDGAR</u>").

2. <u>Placements</u>. Each time that the Company wishes to issue and sell Placement Shares hereunder (each, a "<u>Placement</u>"), it will notify the Agent by electronic mail (or other method mutually agreed to in writing by the parties) of the number of Placement Shares, the time period during which sales are requested to be made, any limitation on the number of Placement Shares that may be sold in any one day and any minimum price below which sales may not be made (a "<u>Placement Notice</u>"), the form of which is attached hereto as <u>Schedule 1</u>. The Placement Notice shall originate from any of the individuals from the Company set forth on <u>Schedule 3</u> (with a copy to each of the other individuals from the Company listed on such schedule), and shall be addressed to each of the individuals from the Agent set forth on <u>Schedule 3</u> may be amended from time to time. The Placement Notice shall be effective immediately upon receipt by the Agent unless and until (i) the Agent declines to accept the terms

contained therein for any reason, in its sole discretion, (ii) the entire amount of the Placement Shares thereunder has been sold, (iii) the Company suspends or terminates the Placement Notice, which suspension and termination rights may be exercised by the Company in its sole discretion, or (iv) this Agreement has been terminated under the provisions of <u>Section 13</u>. The amount of any discount, commission or other compensation to be paid by the Company to the Agent in connection with the sale of the Placement Shares shall be calculated in accordance with the terms set forth in <u>Schedule 2</u>. It is expressly acknowledged and agreed that neither the Company delivers a Placement Notice to the Agent and the Agent does not decline such Placement Notice pursuant to the terms set forth above, and then only upon the terms specified therein and herein. In the event of a conflict between the terms of <u>Sections 2</u> or <u>3</u> of this Agreement and the terms of a Placement Notice, the terms of the Placement Notice will control.

3. <u>Sale of Placement Shares by the Agent</u>. Subject to the terms and conditions of this Agreement, for the period specified in a Placement Notice, the Agent will use its commercially reasonable efforts consistent with its normal trading and sales practices and applicable state and federal laws, rules and regulations and the rules of the Nasdaq Stock Market (the "<u>Exchange</u>"), to sell the Placement Shares up to the amount specified in, and otherwise in accordance with the terms of, such Placement Notice. The Agent will provide written confirmation to the Company no later than the opening of the Trading Day (as defined below) immediately following the Trading Day on which it has made sales of Placement Shares hereunder setting forth the number of Placement Shares sold on such day, the compensation payable by the Company to the Agent pursuant to <u>Section 2</u> with respect to such sales, and the Net Proceeds (as defined below) payable to the Company, with an itemization of the deductions made by the Agent (as set forth in <u>Section 5(b)</u>) from the gross proceeds that it receives from such sales. Subject to the terms of a Placement Notice, the Agent may sell Placement Shares by any method permitted by law deemed to be an "at the market offering" as defined in Rule 415 of the Securities Act. "<u>Trading Day</u>" means any day on which shares of Common Stock are purchased and sold on the Exchange.

4. <u>Suspension of Sales</u>. The Company or the Agent may, upon notice to the other party in writing (including by email correspondence to each of the individuals of the other party set forth on <u>Schedule 3</u>, if receipt of such correspondence is actually acknowledged by any of the individuals to whom the notice is sent, other than via auto-reply) or by telephone (confirmed immediately by verifiable facsimile transmission or email correspondence to each of the individuals of the other party set forth on <u>Schedule 3</u>), suspend any sale of Placement Shares (a "<u>Suspension</u>"); *provided, however*, that such suspension shall not affect or impair any party's obligations with respect to any Placement Shares sold hereunder prior to the receipt of such notice. While a Suspension is in effect, any obligation under <u>Sections 7(1)</u>, <u>7(m)</u>, and <u>7(n)</u> with respect to the delivery of certificates, opinions, or comfort letters to the Agent, shall be waived. Each of the parties agrees that no such notice under this <u>Section 4</u> shall be effective against any

other party unless it is made to one of the individuals named on <u>Schedule 3</u> hereto, as such Schedule may be amended from time to time.

# 5. <u>Sale and Delivery to the Agent; Settlement</u>.

a. <u>Sale of Placement Shares</u>. On the basis of the representations and warranties herein contained and subject to the terms and conditions herein set forth, upon the Agent's acceptance of the terms of a Placement Notice, and unless the sale of the Placement Shares described therein has been declined, suspended, or otherwise terminated in accordance with the terms of this Agreement, the Agent, for the period specified in the Placement Notice, will use its commercially reasonable efforts consistent with its normal trading and sales practices and applicable state and federal laws, rules and regulations and the rules of the Exchange to sell such Placement Shares up to the amount specified in, and otherwise in accordance with the terms of, such Placement Notice. The Company acknowledges and agrees that (i) there can be no assurance that the Agent will be successful in selling Placement Shares, (ii) the Agent will incur no liability or obligation to the Company or any other person or entity if it does not sell Placement Shares for any reason other than a failure by the Agent to use its commercially reasonable efforts consistent with its normal trading and sales practices and applicable state and federal laws, rules and regulations and the rules of the Exchange to sell such Placement to use its commercially reasonable efforts consistent with its normal trading and sales practices and applicable state and federal laws, rules and regulations and the rules of the Exchange to sell such Placement Shares as required under this Agreement and (iii) the Agent shall be under no obligation to purchase Placement Shares on a principal basis pursuant to this Agreement, except as otherwise agreed by the Agent and the Company.

b. <u>Settlement of Placement Shares</u>. Unless otherwise specified in the applicable Placement Notice, settlement for sales of Placement Shares will occur on the second (2<sup>nd</sup>) Trading Day (or such earlier day as is industry practice for regular-way trading) following the date on which such sales are made (each, a "<u>Settlement Date</u>"). The Agent shall notify the Company of each sale of Placement Shares no later than opening day following the Trading Day that the Agent sold Placement Shares. The amount of proceeds to be delivered to the Company on a Settlement Date against receipt of the Placement Shares sold (the "<u>Net Proceeds</u>") will be equal to the aggregate sales price received by the Agent, after deduction for (i) the Agent's commission, discount or other compensation for such sales payable by the Company pursuant to Section 2 hereof, and (ii) any transaction fees imposed by any governmental or self-regulatory organization in respect of such sales.

c. <u>Delivery of Placement Shares</u>. On or before each Settlement Date, the Company will, or will cause its transfer agent to, electronically transfer the Placement Shares being sold by crediting the Agent's or its designee's account (provided the Agent shall have given the Company written notice of such designee and such designee's account information at least one Trading Day prior to the Settlement Date) at The Depository Trust Company through its Deposit and Withdrawal at Custodian System or by such other means of delivery as may be mutually agreed upon by the parties hereto which in all cases shall be freely tradable, transferable, registered shares in good deliverable form. On each Settlement Date, the Agent will deliver the related Net Proceeds in same day funds to an account designated by the Company on, or prior to, the Settlement Date. The Company agrees that if the Company, or its transfer agent (if applicable), defaults in its obligation to deliver Placement Shares on a Settlement Date

through no fault of the Agent, then in addition to and in no way limiting the rights and obligations set forth in <u>Section 11(a)</u> hereto, it will (i) hold the Agent harmless against any reasonably incurred and documented loss, claim, damage or expense (including reasonable and documented legal fees and expenses), as incurred, arising out of or in connection with such default by the Company or its transfer agent (if applicable) and (ii) pay to the Agent (without duplication) any commission, discount, or other compensation to which it would otherwise have been entitled absent such default.

d. <u>Limitations on Offering Size</u>. Under no circumstances shall the Company cause or request the offer or sale of any Placement Shares if, after giving effect to the sale of such Placement Shares, the aggregate number of Placement Shares sold pursuant to this Agreement would exceed the lesser of (A) together with all sales of Placement Shares under this Agreement, the Maximum Amount, (B) the amount available for offer and sale under the currently effective Registration Statement and (C) the amount authorized from time to time to be issued and sold under this Agreement by the Company's board of directors, a duly authorized committee thereof or a duly authorized executive committee, and notified to the Agent in writing. Under no circumstances shall the Company cause or request the offer or sale of any Placement Shares pursuant to this Agreement at a price lower than the minimum price authorized from time to time by the Company's board of directors, a duly authorized committee thereof or a duly authorized executive committee, and notified to the Agent in writing.

6. <u>Representations and Warranties of the Company</u>. Except as disclosed in the Registration Statement or Prospectus (including the Incorporated Documents), the Company represents and warrants to, and agrees with the Agent that as of the date of this Agreement and as of each Applicable Time (as defined below), unless such representation, warranty or agreement specifies a different date or time:

a. Registration Statement and Prospectus. The transactions contemplated by this Agreement meet the requirements for and comply with the conditions for the use of Form S-3 under the Securities Act. The Registration Statement has been filed with the Commission and has been declared effective under the Securities Act. The Prospectus Supplement will name the Agent as the agent in the section entitled "Plan of Distribution." The Company has not received, and has no notice of, any order of the Commission preventing or suspending the use of the Registration Statement, or threatening or instituting proceedings for that purpose. The Registration Statement and the offer and sale of Placement Shares as contemplated hereby meet the requirements of Rule 415 under the Securities Act and comply in all material respects with said Rule. Any statutes, regulations, contracts or other documents that are required to be described in the Registration Statement or the Prospectus or to be filed as exhibits to the Registration Statement have been so described or filed, as applicable. Copies of the Registration Statement, the Prospectus, and any such amendments or supplements and all documents incorporated by reference therein that were filed with the Commission on or prior to the date of this Agreement have been delivered, or are available through EDGAR, to the Agent and its counsel. The Company has not distributed and, prior to the later to occur of each Settlement Date and completion of the distribution of the Placement Shares, will not distribute any offering material in connection with the offering or sale of the Placement Shares other than

the Registration Statement and the Prospectus and any Issuer Free Writing Prospectus (as defined below) to which the Agent has consented, which consent will not be unreasonably withheld or delayed, or that is required by applicable law or the listing maintenance requirements of the Exchange. The Common Stock is currently quoted on the Exchange under the trading symbol "LAZR." The Company has not, in the 12 months preceding the date hereof, received notice from the Exchange to the effect that the Company is not in compliance with the listing or maintenance requirements of the Exchange. To the Company's knowledge, it is in compliance with all such listing and maintenance requirements.

b. <u>No Misstatement or Omission</u>. At each Settlement Date, the Registration Statement and the Prospectus, as of such date, will conform in all material respects with the requirements of the Securities Act. The Registration Statement, when it became or becomes effective, did not, and will not, contain an untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary to make the statements therein not misleading. The Prospectus and any amendment and supplement thereto, on the date thereof and at each Applicable Time (defined below), did not or will not include an untrue statement of a material fact or omit to state a material fact necessary to make the statements therein, in light of the circumstances under which they were made, not misleading. The documents incorporated by reference in the Prospectus or any Prospectus Supplement did not, and any further documents filed and incorporated by reference therein will not, when filed with the Commission, contain an untrue statement of a material fact or omit to state a material fact required to be stated in such document or necessary to make the statements in such document, in light of the circumstances under which document, in light of the circumstances under which they were made, not misleading. The foregoing shall not apply to statements in, or omissions from, any such document made in reliance upon, and in conformity with, information furnished to the Company by the Agent specifically for use in the preparation thereof.

c. <u>Conformity with Securities Act and Exchange Act</u>. The Registration Statement, the Prospectus, any Issuer Free Writing Prospectus or any amendment or supplement thereto, and the Incorporated Documents, when such documents were or are filed with the Commission under the Securities Act or the Exchange Act or became or become effective under the Securities Act, as the case may be, conformed or will conform in all material respects with the requirements of the Securities Act and the Exchange Act, as applicable.

d. <u>Financial Information</u>. The consolidated financial statements of the Company included or incorporated by reference in the Registration Statement and the Prospectus, together with the related notes and schedules, present fairly, in all material respects, the consolidated financial position of the Company and the Subsidiaries (as defined below) as of the dates indicated and the consolidated results of operations, cash flows and changes in stockholders' equity of the Company and the Subsidiaries for the periods specified (subject, in the case of unaudited statements, to normal year-end audit adjustments which will not be material, either individually or in the aggregate) and have been prepared in compliance with the published requirements of the Securities Act and Exchange Act, as applicable, and in conformity with generally accepted accounting principles in the United States ("GAAP") applied on a consistent basis (except (i) for such adjustments to accounting standards and practices as are noted therein and (ii) in the case of unaudited interim statements, to the extent they may exclude

footnotes or may be condensed or summary statements) during the periods involved; the other financial and statistical data with respect to the Company and the Subsidiaries contained or incorporated by reference in the Registration Statement and the Prospectus, are accurately and fairly presented and prepared on a basis consistent with the financial statements and books and records of the Company; there are no financial statements (historical or pro forma) that are required to be included or incorporated by reference in the Registration Statement, or the Prospectus that are not included or incorporated by reference as required; the Company and the Subsidiaries do not have any material liabilities or obligations, direct or contingent (including any off balance sheet obligations), not described in the Registration Statement, and the Prospectus which are required to be described in the Registration Statement or Prospectus; and all disclosures contained or incorporated by reference in the Registration Statement and the Prospectus, if any, regarding "non-GAAP financial measures" (as such term is defined by the rules and regulations of the Commission) comply in all material respects with Regulation G of the Exchange Act and Item 10 of Regulation S-K under the Securities Act, to the extent applicable.

e. <u>Conformity with EDGAR Filing</u>. The Prospectus delivered to the Agent for use in connection with the sale of the Placement Shares pursuant to this Agreement will be identical to the versions of the Prospectus created to be transmitted to the Commission for filing via EDGAR, except to the extent permitted by Regulation S-T.

f. <u>Organization</u>. The Company and any subsidiary that is a significant subsidiary (as such term is defined in Rule 1-02 of Regulation S-X promulgated by the Commission) (each, a "<u>Subsidiary</u>," collectively, the "<u>Subsidiaries</u>"), are, and will be, duly organized, validly existing as a corporation and in good standing under the laws of their respective jurisdictions of organization. The Company and the Subsidiaries are duly licensed or qualified as a foreign corporation for transaction of business and in good standing under the laws of each other jurisdiction in which their respective ownership or lease of property or the conduct of their respective businesses requires such license or qualification, and have all corporate power and authority necessary to own or hold their respective properties and to conduct their respective businesses as described in the Registration Statement and the Prospectus, except where the failure to be so qualified or in good standing or have such power or authority would not, individually or in the aggregate, have a material adverse effect on the assets, business, operations, earnings, properties, condition (financial or otherwise), prospects, stockholders' equity or results of operations of the Company and the Subsidiaries taken as a whole, or prevent the consummation of the transactions contemplated hereby (a "<u>Material Adverse Effect</u>").

g. <u>Subsidiaries</u>. The Company owns directly or indirectly, all of the equity interests of the Subsidiaries free and clear of any lien, charge, security interest, encumbrance, right of first refusal or other restriction, and all the equity interests of the Subsidiaries are validly issued and are fully paid, nonassessable and free of preemptive and similar rights. The Company does not own or control, directly or indirectly, any corporation, association or other entity other than the subsidiaries listed in Exhibit 21.1 to the Company's Annual Report on Form 10-K for the most recently ended fiscal year and other than (i) those subsidiaries not required to be listed

on Exhibit 21.1 by Item 601 of Regulation S-K under the Exchange Act and (ii) those subsidiaries formed since the last day of the most recently ended fiscal year.

h. <u>No Violation or Default</u>. Neither the Company nor any Subsidiary is (i) in violation of its charter or by-laws or similar organizational documents; (ii) in default, and no event has occurred that, with notice or lapse of time or both, would constitute such a default, in the due performance or observance of any term, covenant or condition contained in any indenture, mortgage, deed of trust, loan agreement or other similar agreement or instrument to which the Company or any Subsidiary is a party or by which the Company or any Subsidiary is bound or to which any of the property or assets of the Company or any Subsidiary is subject; or (iii) in violation of any law or statute or any judgment, order, rule or regulation of any court or arbitrator or governmental or regulatory authority, except, in the case of each of clauses (ii) and (iii) above, for any such violation or default that would not, individually or in the aggregate, have a Material Adverse Effect. To the Company's knowledge, no other party under any material contract or other agreement to which it or any Subsidiary is a party is in default in any respect thereunder where such default would have a Material Adverse Effect.

i. <u>No Material Adverse Effect</u>. Since the date of the most recent financial statements of the Company included or incorporated by reference in the Registration Statement and Prospectus, there has not been (i) any Material Adverse Effect, or any development that would result in a Material Adverse Effect, (ii) any transaction which is material to the Company and the Subsidiaries taken as a whole, (iii) any obligation or liability, direct or contingent (including any off-balance sheet obligations), incurred by the Company or the Subsidiaries, which is material to the Company and the Subsidiaries taken as a whole, (iv) any material change in the capital stock (other than (A) the grant of additional options under the Company's existing stock option plans, (B) changes in the number of outstanding Common Stock of the Company due to the issuance of shares upon the exercise or conversion of securities exercisable for, or convertible into, Common Stock outstanding on the date hereof, (C) as a result of the issuance of Placement Shares, (D) any repurchases of capital stock of the Company, (E) as described in a proxy statement filed on Schedule 14A or a Registration Statement on Form S-4, or (F) otherwise publicly announced) or outstanding long-term indebtedness of the Company or the Subsidiaries or (v) any dividend or distribution of any kind declared, paid or made on the capital stock of the Company or any Subsidiary, other than in each case above in the ordinary course of business or as otherwise disclosed in the Registration Statement or Prospectus (including any document incorporated by reference therein).

j. <u>Capitalization</u>. The issued and outstanding shares of capital stock of the Company have been validly issued, are fully paid and non-assessable and, other than as disclosed in the Registration Statement or the Prospectus, are not subject to any preemptive rights, rights of first refusal or similar rights. The Company has an authorized, issued and outstanding capitalization as set forth in the Registration Statement and the Prospectus as of the dates referred to therein (other than (i) the grant of additional options under the Company's existing stock option plans, (ii) changes in the number of outstanding Common Stock of the Company due to the issuance of shares upon the exercise or conversion of securities exercisable for, or convertible into, Common Stock outstanding on the date hereof, (iii) as a result of the issuance of Placement

Shares, or (iv) any repurchases of capital stock of the Company) and such authorized capital stock conforms to the description thereof set forth in the Registration Statement and the Prospectus. The description of the Common Stock in the Registration Statement and the Prospectus is complete and accurate in all material respects. Except as disclosed in or contemplated by the Registration Statement or the Prospectus, the Company did not have outstanding any options to purchase, or any rights or warrants to subscribe for, or any securities or obligations convertible into, or exchangeable for, or any contracts or commitments to issue or sell, any shares of capital stock or other securities.

k. <u>S-3 Eligibility</u>. (i) At the time of filing the Registration Statement and (ii) at the time of the most recent amendment thereto for the purposes of complying with Section 10(a)(3) of the Securities Act (whether such amendment was by post-effective amendment, incorporated report filed pursuant to Section 13 or 15(d) of the Exchange Act or form of prospectus), the Company met the then applicable requirements for use of Form S-3 under the Securities Act, including compliance with General Instruction I.B.1 of Form S-3, as applicable. The Company is not a shell company (as defined in Rule 405 under the Securities Act) and has not been a shell company for at least 12 calendar months previously and if it has been a shell company at any time previously, has filed current Form 10 information (as defined in General Instruction I.B.6 of Form S-3) or an equivalent thereof with the Commission at least 12 calendar months previously reflecting its status as an entity that is not a shell company.

l. <u>Authorization; Enforceability</u>. The Company has full legal right, power and authority to enter into this Agreement and perform the transactions contemplated hereby. This Agreement has been duly authorized, executed and delivered by the Company and is a legal, valid and binding agreement of the Company enforceable against the Company in accordance with its terms, except to the extent that (i) enforceability may be limited by bankruptcy, insolvency, reorganization, moratorium or similar laws affecting creditors' rights generally and by general equitable principles and (ii) the indemnification and contribution provisions of <u>Section 11</u> hereof may be limited by federal or state securities laws and public policy considerations in respect thereof.

m. <u>Authorization of Placement Shares</u>. The Placement Shares, when issued and delivered pursuant to the terms approved by the board of directors of the Company or a duly authorized committee thereof, or a duly authorized executive committee, against payment therefor as provided herein, will be duly and validly authorized and issued and fully paid and nonassessable, free and clear of any pledge, lien, encumbrance, security interest or other claim (other than any pledge, lien, encumbrance, security interest or other claim arising from an act or omission of the Agent or a purchaser), including any statutory or contractual preemptive rights, resale rights, rights of first refusal or other similar rights, and will be registered pursuant to Section 12 of the Exchange Act. The Placement Shares, when issued, will conform in all material respects to the description thereof set forth in or incorporated into the Prospectus.

n. <u>No Consents Required</u>. No consent, approval, authorization, order, registration or qualification of or with any court or arbitrator or any governmental or regulatory authority is required for the execution, delivery and performance by the Company of this Agreement, and the issuance and sale by the Company of the Placement Shares as contemplated

hereby, except for such consents, approvals, authorizations, orders and registrations or qualifications (i) as may be required under applicable state securities laws or by the by-laws and rules of the Financial Industry Regulatory Authority ("<u>FINRA</u>") or the Exchange, including any notices that may be required by the Exchange, in connection with the sale of the Placement Shares by the Agent, (ii) as may be required under the Securities Act and (iii) as have been previously obtained by the Company.

o. <u>No Preferential Rights</u>. (i) No person, as such term is defined in Rule 1-02 of Regulation S-X promulgated under the Securities Act (each, a "<u>Person</u>"), has the right, contractual or otherwise, to cause the Company to issue or sell to such Person any Common Stock or shares of any other capital stock or other securities of the Company (other than upon the exercise of options or warrants to purchase Common Stock or upon the exercise of options that may be granted from time to time under the Company's stock option plan), (ii) no Person has any preemptive rights, rights of first refusal, or any other rights (whether pursuant to a "poison pill" provision or otherwise) to purchase any Common Stock or shares of any other capital stock or other securities of the Company from the Company which have not been duly waived with respect to the offering contemplated hereby, (iii) no Person has the right to act as an underwriter or as a financial advisor to the Company to register under the Securities Act any Common Stock or shares of any other securities of any other capital stock or shares of any other securities of any other capital stock, and (iv) no Person has the right, contractual or otherwise, to require the Company to register under the Securities Act any Common Stock or shares of any other capital stock or shares of any other securities in the Registration Statement or the offering contemplated thereby, whether as a result of the filing or effectiveness of the Registration Statement or the sale of the Placement Shares as contemplated thereby or otherwise, except in each case for such rights as have been waived on or prior to the date hereof.

p. Independent Public Accountant. Deloitte & Touche LLP (the "Accountant"), whose report on the consolidated financial statements of the Company is filed with the Commission as part of the Company's most recent Annual Report on Form 10-K filed with the Commission and incorporated into the Registration Statement, are and, during the periods covered by their report, were independent public accountants within the meaning of the Securities Act and the Public Company Accounting Oversight Board (United States). To the Company's knowledge, the Accountant is not in violation of the auditor independence requirements of the Sarbanes-Oxley Act of 2002 (the "Sarbanes-Oxley Act") with respect to the Company.

q. <u>Enforceability of Agreements</u>. All agreements between the Company and third parties expressly referenced in the Prospectus, other than such agreements that have expired by their terms or whose termination is disclosed in documents filed by the Company on EDGAR, are legal, valid and binding obligations of the Company and, to the Company's knowledge, enforceable in accordance with their respective terms, except to the extent that (i) enforceability may be limited by bankruptcy, insolvency, reorganization, moratorium or similar laws affecting creditors' rights generally and by general equitable principles and (ii) the indemnification provisions of certain agreements may be limited by federal or state securities laws or public policy considerations in respect thereof, and except for any unenforceability that, individually or in the aggregate, would not have a Material Adverse Effect.

r. <u>No Litigation</u>. There are no legal or governmental proceedings pending or threatened to which the Company or any Subsidiary is a party or to which any of the properties of the Company or any Subsidiary is subject (i) other than proceedings accurately described in all material respects in the Prospectus and proceedings that would not have a Material Adverse Effect on the Company and its subsidiaries, taken as a whole, or on the power or ability of the Company to perform its obligations under this Agreement or to consummate the transactions contemplated by the Prospectus or (ii) that are required to be described in the Registration Statement or the Prospectus or to be filed as exhibits to the Registration Statement that are not described or filed as required.

s. <u>Licenses and Permits</u>. The Company and the Subsidiaries possess or have obtained, all licenses, certificates, consents, orders, approvals, permits and other authorizations issued by, and have made all declarations and filings with, the appropriate federal, state, local or foreign governmental or regulatory authorities that are necessary for the ownership or lease of their respective properties or the conduct of their respective businesses as currently conducted, as described in the Registration Statement and the Prospectus (the "<u>Permits</u>"), except where the failure to possess, obtain or make the same would not, individually or in the aggregate, have a Material Adverse Effect. Neither the Company nor any Subsidiary has received written notice of any proceeding relating to revocation or modification of any such Permit or has any reason to believe that such Permit will not be renewed in the ordinary course, except where the failure to obtain any such renewal would not, individually or in the aggregate, have a Material Adverse Effect.

t. <u>No Material Defaults</u>. Neither the Company nor any Subsidiary has defaulted on any installment on indebtedness for borrowed money or on any rental on one or more long-term leases, which defaults, individually or in the aggregate, would have a Material Adverse Effect. The Company has not filed a report pursuant to Section 13(a) or 15(d) of the Exchange Act since the filing of its last Annual Report on Form 10-K, indicating that it (i) has failed to pay any dividend or sinking fund installment on preferred stock or (ii) has defaulted on any installment on indebtedness for borrowed money or on any rental on one or more long-term leases, which defaults, individually or in the aggregate, would have a Material Adverse Effect.

u. <u>Certain Market Activities</u>. Neither the Company, nor any Subsidiary, nor, to the knowledge of the Company, any of their respective directors, officers or controlling persons has taken, directly or indirectly, any action designed, or that has constituted or would cause or result in, under the Exchange Act or otherwise, the stabilization or manipulation of the price of any security of the Company to facilitate the sale or resale of the Placement Shares.

v. <u>Broker/Dealer Relationships</u>. Neither the Company nor any Subsidiary or any related entities (i) is required to register as a "broker" or "dealer" in accordance with the provisions of the Exchange Act or (ii) directly or indirectly through one or more intermediaries, controls or is a "person associated with a member" or "associated person of a member" (within the meaning set forth in the FINRA Manual).

w. <u>No Reliance</u>. The Company has not relied upon the Agent or legal counsel for the Agent for any legal, tax or accounting advice in connection with the offering and sale of the Placement Shares.

x. <u>Taxes</u>. The Company and the Subsidiaries have filed all federal, state, local and foreign tax returns which have been required to be filed and paid all taxes shown thereon through the date hereof, to the extent that such taxes have become due and are not being contested in good faith, except where the failure to do so would not have a Material Adverse Effect. Except as otherwise disclosed in or contemplated by the Registration Statement or the Prospectus, no tax deficiency has been determined adversely to the Company or any Subsidiary which has had, or would have, individually or in the aggregate, a Material Adverse Effect. The Company has no knowledge of any federal, state or other governmental tax deficiency, penalty or assessment which has been or might be asserted or threatened against it which would have a Material Adverse Effect.

y. <u>Title to Real and Personal Property.</u> The Company and the Subsidiaries have good and marketable title to all items of real property and good and valid title to all personal property described in the Registration Statement or Prospectus as being owned by them that are material to the businesses of the Company or such Subsidiary, in each case free and clear of all liens, encumbrances and claims, except those that (i) do not materially interfere with the use made and proposed to be made of such property by the Company and the Subsidiaries or (ii) would not, individually or in the aggregate, have a Material Adverse Effect. Any real property described in the Registration Statement or Prospectus as being leased by the Company and the Subsidiaries is held by them under valid, existing and enforceable leases, except those that (A) do not materially interfere with the use made or proposed to be made of such property by the Company or the Subsidiaries or (B) would not, individually or in the aggregate, have a Material Adverse Effect.

z. Intellectual Property. The Company and the Subsidiary own or possess adequate enforceable rights to use all patents, patent applications, trademarks (both registered and unregistered), trade names, trademark registrations, service marks, service mark registrations, Internet domain name registrations, copyrights, copyright registrations, licenses and know-how (including trade secrets and other unpatented and/or unpatentable proprietary or confidential information, systems or procedures) (collectively, the "Intellectual Property"), necessary for the conduct of their respective businesses as conducted as of the date hereof, except to the extent that the failure to own or possess adequate rights to use such Intellectual Property would not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect. The Company and the Subsidiaries have not received any written notice of any claim of infringement or conflict which asserted Intellectual Property rights of others, which infringement or conflict, if the subject of an unfavorable decision, would result in a Material Adverse Effect. There are no pending, or to the Company's knowledge, threatened judicial proceedings or interference proceedings challenging the Company's or any Subsidiary's rights in or to or the validity of the scope of any of the Company's or its Subsidiaries' patents, patent applications or proprietary information. To the Company's knowledge, there are no third parties who have established rights or have any claim in any of the Company's or any of its

Subsidiary's patents, patent applications or any patent to be issued therefrom by virtue of any contract, license or other agreement entered into between such entity or individual and the Company or any Subsidiary or by any non-contractual obligation, other than by written licenses granted by the Company or any Subsidiary. The Company has not received any written notice of any claim challenging the rights of the Company or its Subsidiaries in or to any Intellectual Property owned, licensed or optioned by the Company or any Subsidiary which claim, if the subject of an unfavorable decision, would result in a Material Adverse Effect.

aa. <u>Compliance with Applicable Laws</u>. The Company has not been advised, and has no reason to believe, that it and each of its subsidiaries are not conducting business in compliance with all applicable laws, rules and regulations of the jurisdictions in which it is conducting business, except where failure to be so in compliance would not result in a Material Adverse Effect.

bb. Environmental Laws. The Company and the Subsidiaries (i) are in compliance with any and all applicable federal, state, local and foreign laws, rules, regulations, decisions and orders relating to the protection of human health and safety, the environment or hazardous or toxic substances or wastes, pollutants or contaminants (collectively, "Environmental Laws"); (ii) have received and are in compliance with all permits, licenses or other approvals required of them under applicable Environmental Laws to conduct their respective businesses as described in the Registration Statement and the Prospectus; and (iii) have not received notice of any actual or potential liability for the investigation or remediation of any disposal or release of hazardous or toxic substances or wastes, pollutants, except, in the case of any of clauses (i), (ii) or (iii) above, for any such failure to comply or failure to receive required permits, licenses, other approvals or liability as would not, individually or in the aggregate, have a Material Adverse Effect.

cc. <u>Compliance Program</u>. The Company has established and administers a compliance program applicable to the Company, to assist the Company and the directors, officers and employees of the Company in complying with applicable regulatory guidelines (including, without limitation, if applicable, those administered by the FDA, the EMA, and any other foreign, federal, state or local governmental or regulatory authority performing functions similar to those performed by the FDA or EMA); except where such noncompliance would not reasonably be expected to have a Material Adverse Effect.

dd. <u>Disclosure Controls.</u> The Company maintains a system of internal accounting controls sufficient to provide reasonable assurance that (i) transactions are executed in accordance with management's general or specific authorizations; (ii) transactions are recorded as necessary to permit preparation of financial statements in conformity with GAAP and to maintain asset accountability; (iii) access to assets is permitted only in accordance with management's general or specific authorization; and (iv) the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action is taken with respect to any differences. The Company is not aware of any material weaknesses in its internal control over financial reporting (other than as set forth in the Registration Statement or the Prospectus). Since the date of the latest audited financial statements of the Company included in the Prospectus, there has been no change in the Company's internal control over financial

reporting that has materially affected, or is reasonably likely to materially affect, the Company's internal control over financial reporting (other than as set forth in the Registration Statement or the Prospectus). The Company has established disclosure controls and procedures (as defined in Exchange Act Rules 13a-15 and 15d-15) that comply with the requirements of the Exchange Act. The Company's certifying officers have evaluated the effectiveness of the Company's controls and procedures as of a date within 90 days prior to the filing date of the Form 10-K for the fiscal year most recently ended (such date, the "Evaluation Date"). The Company presented in its Form 10-K for the fiscal year most recently ended the conclusions of the certifying officers about the effectiveness of the disclosure controls and procedures based on their evaluations as of the most recent Evaluation Date.

ee. <u>Sarbanes-Oxley Act</u>. There is and has been no failure on the part of the Company or, to the knowledge of the Company, any of the Company's directors or officers, in their capacities as such, to comply in all material respects with any applicable provisions of the Sarbanes-Oxley Act and the rules and regulations promulgated thereunder. Each of the principal executive officer and the principal financial officer of the Company (or each former principal executive officer of the Company and each former principal financial officer of the Company as applicable) has made all certifications required by Sections 302 and 906 of the Sarbanes-Oxley Act with respect to all reports, schedules, forms, statements and other documents required to be filed by it or furnished by it to the Commission during the past 12 months. For purposes of the preceding sentence, "principal executive officer" and "principal financial officer" shall have the meanings given to such terms in the Exchange Act Rules 13a-15 and 15d-15.

ff. <u>Finder's Fees</u>. Neither the Company nor any Subsidiary has incurred any liability for any finder's fees, brokerage commissions or similar payments in connection with the transactions herein contemplated, except as may otherwise exist with respect to the Agent pursuant to this Agreement.

gg. Labor Disputes. No labor disturbance by or dispute with employees of the Company or any Subsidiary exists or, to the knowledge of the Company, is threatened which would result in a Material Adverse Effect.

hh. <u>Investment Company Act</u>. Neither the Company nor any Subsidiary is or, after giving effect to the offering and sale of the Placement Shares, will be required to register as an "investment company" or an entity "controlled" by an "investment company," as such terms are defined in the Investment Company Act of 1940, as amended (the "<u>Investment Company Act</u>").

ii. <u>Operations</u>. The operations of the Company and the Subsidiaries are and have been conducted at all times in compliance with applicable financial record keeping and reporting requirements of the Currency and Foreign Transactions Reporting Act of 1970, as amended, the money laundering statutes of all jurisdictions to which the Company or the Subsidiaries are subject, the rules and regulations thereunder and any related or similar rules, regulations or guidelines, issued, administered or enforced by any governmental agency having jurisdiction over the Company (collectively, the "<u>Money Laundering Laws</u>"), except where the failure to be in such compliance would not result in a Material Adverse Effect; and no action,

suit or proceeding by or before any court or governmental agency, authority or body or any arbitrator involving the Company or any Subsidiary with respect to the Money Laundering Laws is pending or, to the knowledge of the Company, threatened.

jj. <u>Off-Balance Sheet Arrangements</u>. There are no transactions, arrangements and other relationships between and/or among the Company, and/or, to the knowledge of the Company, any of its affiliates and any unconsolidated entity, including, but not limited to, any structured finance, special purpose or limited purpose entity (each, an "<u>Off Balance Sheet Transaction</u>") that would affect materially the Company's liquidity or the availability of or requirements for its capital resources, including those Off Balance Sheet Transactions described in the Commission's Statement about Management's Discussion and Analysis of Financial Conditions and Results of Operations (Release Nos. 33-8056; 34-45321; FR-61), required to be described in the Registration Statement or the Prospectus which have not been described as required.

kk. <u>Underwriter Agreements</u>. Other than with respect to this Agreement, the Company is not a party to any agreement with an agent or underwriter for any other "at the market" or continuous equity transaction.

II. <u>ERISA</u>. To the knowledge of the Company, (i) each material employee benefit plan, within the meaning of Section 3(3) of the Employee Retirement Income Security Act of 1974, as amended ("<u>ERISA</u>") that is maintained, administered or contributed to by the Company or any of its affiliates for employees or former employees of the Company and the Subsidiaries has been maintained in material compliance with its terms and the requirements of any applicable statutes, orders, rules and regulations, including but not limited to ERISA and the Internal Revenue Code of 1986, as amended (the "<u>Code</u>"); (ii) no prohibited transaction, within the meaning of Section 406 of ERISA or Section 4975 of the Code, has occurred which would result in a material liability to the Company with respect to any such plan excluding transactions effected pursuant to a statutory or administrative exemption; and (iii) for each such plan that is subject to the funding rules of Section 412 of the Code or Section 302 of ERISA, no "accumulated funding deficiency" as defined in Section 412 of the Code has been incurred, whether or not waived, and the fair market value of the assets of each such plan (excluding for these purposes accrued but unpaid contributions) equals or exceeds the present value of all benefits accrued under such plan determined using reasonable actuarial assumptions, other than, in the case of (i), (ii) and (iii) above, as would not have a Material Adverse Effect.

mm. <u>Forward-Looking Statements</u>. No forward-looking statement (within the meaning of Section 27A of the Securities Act and Section 21E of the Exchange Act) (a "<u>Forward-Looking Statement</u>") contained in the Registration Statement and the Prospectus has been made or reaffirmed without a reasonable basis or has been disclosed other than in good faith.

nn. <u>Margin Rules</u>. Neither the issuance, sale and delivery of the Placement Shares nor the application of the proceeds thereof by the Company as described in the Registration Statement and the Prospectus will violate Regulation T, U or X of the Board of Governors of the Federal Reserve System.

oo. <u>Insurance</u>. The Company and the Subsidiaries carry, or are covered by, insurance in such amounts and covering such risks as the Company and the Subsidiaries reasonably believe are adequate for the conduct of their business.

p p. No Improper Practices. (i) Neither the Company nor, to the Company's knowledge, the Subsidiaries, nor to the Company's knowledge, any of their respective executive officers has, in the past five years, made any unlawful contributions to any candidate for any political office (or failed fully to disclose any contribution in violation of law) or made any contribution or other payment to any official of, or candidate for, any federal, state, municipal, or foreign office or other person charged with similar public or quasi-public duty in violation of any law or of the character required to be disclosed in the Prospectus; (ii) no relationship, direct or indirect, exists between or among the Company or, to the Company's knowledge, the Subsidiaries or any affiliate of any of them, on the one hand, and the directors, officers and stockholders of the Company or, to the Company's knowledge, the Subsidiaries, on the other hand, that is required by the Securities Act to be described in the Registration Statement and the Prospectus that is not so described; (iii) no relationship, direct or indirect, exists between or among the Company or the Subsidiaries or any affiliate of them, on the one hand, and the directors, officers, stockholders or directors of the Company or, to the Company's knowledge, the Subsidiaries, on the other hand, that is required by the rules of FINRA to be described in the Registration Statement and the Prospectus that is not so described; (iv) there are no material outstanding loans or advances or material guarantees of indebtedness by the Company or, to the Company's knowledge, the Subsidiaries to or for the benefit of any of their respective officers or directors or any of the members of the families of any of them; and (v) the Company has not offered, or caused any placement agent to offer, Common Stock to any person with the intent to influence unlawfully (A) a customer or supplier of the Company or the Subsidiaries to alter the customer's or supplier's level or type of business with the Company or the Subsidiaries or (B) a trade journalist or publication to write or publish favorable information about the Company or the Subsidiaries or any of their respective products or services, and, (vi) neither the Company nor the Subsidiaries nor, to the Company's knowledge, any employee or agent of the Company or the Subsidiaries has made any payment of funds of the Company or the Subsidiaries or received or retained any funds in violation of any law, rule or regulation (including, without limitation, the Foreign Corrupt Practices Act of 1977), which payment, receipt or retention of funds is of a character required to be disclosed in the Registration Statement or the Prospectus.

qq. <u>Status Under the Securities Act</u>. The Company was not and is not an ineligible issuer as defined in Rule 405 under the Securities Act at the times specified in Rules 164 and 433 under the Securities Act in connection with the offering of the Placement Shares.

rr. <u>No Misstatement or Omission in an Issuer Free Writing Prospectus</u>. Each Issuer Free Writing Prospectus, as of its issue date and as of each Applicable Time (as defined in <u>Section 25</u> below), did not, does not and will not, through the completion of the Placement or Placements for which such Issuer Free Writing Prospectus is issued, include any information that conflicted, conflicts or will conflict with the information contained in the Registration Statement or the Prospectus, including any incorporated document deemed to be a part thereof that has not

been superseded or modified. The foregoing sentence does not apply to statements in or omissions from any Issuer Free Writing Prospectus based upon and in conformity with written information furnished to the Company by the Agent specifically for use therein.

ss. No Conflicts. Neither the execution of this Agreement, nor the issuance, offering or sale of the Placement Shares, nor the consummation of any of the transactions contemplated herein, nor the compliance by the Company with the terms and provisions hereof will conflict with, or will result in a breach of, any of the terms and provisions of, or has constituted or will constitute a default under, or has resulted in or will result in the creation or imposition of any lien, charge or encumbrance upon any property or assets of the Company pursuant to the terms of any contract or other agreement to which the Company may be bound or to which any of the property or assets of the Company is subject, except (i) such conflicts, breaches or defaults as may have been waived and (ii) such conflicts, breaches and defaults that would not have a Material Adverse Effect; nor will such action result (x) in any violation of the provisions of the organizational or governing documents of the Company, or (y) in any material violation of the provisions of any statute or any order, rule or regulation applicable to the Company or of any federal, state or other regulatory authority or other government body having jurisdiction over the Company, except where such violation would not have a Material Adverse Effect.

# tt. OFAC.

(i) Neither the Company nor any Subsidiary (collectively, the "<u>Entity</u>") nor, to the Company's knowledge, any director, officer, employee, agent, affiliate or representative of the Entity, is a government, individual, or entity (in this paragraph (ss), "<u>Person</u>") that is, or is owned or controlled by a Person that is:

(a) the subject of any sanctions administered or enforced by the U.S. Department of Treasury's Office of Foreign Assets Control ("<u>OFAC</u>"), the United Nations Security Council ("<u>UNSC</u>"), the European Union ("<u>EU</u>"), Her Majesty's Treasury ("<u>HMT</u>"), or other relevant sanctions authority (collectively, "<u>Sanctions</u>"), nor

(b) located, organized or resident in a country or territory that is the subject of Sanctions.

(ii) The Entity will not, directly or indirectly, knowingly use the proceeds of the offering, or lend, contribute or otherwise make available such proceeds to any subsidiary, joint venture partner or other Person:

(a) to fund or facilitate any activities or business of or with any Person or in any country or territory that, at the time of such funding or facilitation, is the subject of Sanctions; or

(b) in any other manner that will result in a violation of Sanctions by any Person (including any Person participating in the offering, whether as underwriter, advisor, investor or otherwise).

(iii) The Entity represents and covenants that, except as detailed in the Registration Statement and the Prospectus, for the past 5 years, it has not knowingly engaged in and is not now knowingly engaged in any dealing or transactions with any Person, or in any country or territory, that at the time of the dealing or transaction is or was the subject of Sanctions.

uu. <u>Stock Transfer Taxes</u>. On each Settlement Date, all material stock transfer or other taxes (other than income taxes) which are required to be paid in connection with the sale and transfer of the Placement Shares to be sold hereunder will be, or will have been, fully paid or provided for by the Company and all laws imposing such taxes will be or will have been fully complied with by the Company in all material respects.

v v. <u>IT Systems</u>. (i)(x) To the knowledge of Company, there has been no security breach or other compromise of any Company's information technology and computer systems, networks, hardware, software, data (including the data of their respective customers, employees, suppliers, vendors and any third party data maintained by or on behalf of them), equipment or technology (collectively, "<u>IT Systems and Data</u>") and (y) the Company has not been notified of, and has no knowledge of any event or condition that would reasonably be expected to result in, any security breach or other compromise to their IT Systems and Data; (ii) the Company is presently in material compliance with all applicable laws or statutes and all judgments, orders, rules and regulations of any court or arbitrator or governmental or regulatory authority, internal policies and contractual obligations relating to the privacy and security of IT Systems and Data and to the protection of such IT Systems and Data from unauthorized use, access, misappropriation or modification, except as would not, in the case of this clause (ii), individually or in the aggregate, have a Material Adverse Effect; and (iii) the Company has implemented backup and disaster recovery technology consistent with industry standards and practices.

Any certificate signed by an officer of the Company and delivered to the Agent or to counsel for the Agent pursuant to or in connection with this Agreement shall be deemed to be a representation and warranty by the Company, as applicable, to the Agent as to the matters set forth therein.

7. <u>Covenants of the Company</u>. The Company covenants and agrees with the Agent that:

a. <u>Registration Statement Amendments</u>. After the date of this Agreement and during any period in which a prospectus relating to any Placement Shares is required to be delivered by the Agent under the Securities Act (including in circumstances where such requirement may be satisfied pursuant to Rule 172 under the Securities Act) (the "<u>Prospectus Delivery Period</u>") (i) the Company will notify the Agent promptly of the time when any subsequent amendment to the Registration Statement, other than documents incorporated by reference or amendments not related to any Placement, has been filed with the Commission and/or has become effective or any subsequent supplement to the Prospectus has been filed and of any request by the Commission for any amendment or supplement to the Registration Statement or Prospectus related to the Placement or for additional information related to the Placement, (ii)

the Company will prepare and file with the Commission, promptly upon the Agent's request, any amendments or supplements to the Registration Statement or Prospectus that, upon the advice of the Company's legal counsel, may be necessary or advisable in connection with the distribution of the Placement Shares by the Agent (provided, however, that the failure of the Agent to make such request shall not relieve the Company of any obligation or liability hereunder, or affect the Agent's right to rely on the representations and warranties made by the Company in this Agreement and provided, further, that the only remedy the Agent shall have with respect to the failure to make such filing shall be to cease making sales under this Agreement until such amendment or supplement is filed); (iii) the Company will not file any amendment or supplement to the Registration Statement or Prospectus relating to the Placement Shares or a security convertible into the Placement Shares (other than an Incorporated Document) unless a copy thereof has been submitted to the Agent within a reasonable period of time before the filing and the Agent has not reasonably objected thereto (provided, however, that (A) the failure of the Agent to make such objection shall not relieve the Company of any obligation or liability hereunder, or affect the Agent's right to rely on the representations and warranties made by the Company in this Agreement and (B) the Company has no obligation to provide the Agent any advance copy of such filing or to provide the Agent an opportunity to object to such filing if the filing does not name the Agent or does not relate to the transaction herein provided; and provided, further, that the only remedy the Agent shall have with respect to the failure by the Company to obtain such consent shall be to cease making sales under this Agreement) and the Company will furnish to the Agent at the time of filing thereof a copy of any document that upon filing is deemed to be incorporated by reference into the Registration Statement or Prospectus, except for those documents available via EDGAR; and (iv) the Company will cause each amendment or supplement to the Prospectus to be filed with the Commission as required pursuant to the applicable paragraph of Rule 424(b) of the Securities Act or, in the case of any document to be incorporated therein by reference, to be filed with the Commission as required pursuant to the Exchange Act, within the time period prescribed (the determination to file or not file any amendment or supplement with the Commission under this Section 7(a), based on the Company's reasonable opinion or reasonable objections, shall be made exclusively by the Company).

b. Notice of Commission Stop Orders. The Company will advise the Agent, promptly after it receives notice or obtains knowledge thereof, of the issuance or threatened issuance by the Commission of any stop order suspending the effectiveness of the Registration Statement, of the suspension of the qualification of the Placement Shares for offering or sale in any jurisdiction, or of the initiation or threatening of any proceeding for any such purpose; and it will use its commercially reasonable efforts to prevent the issuance of any stop order or to obtain its withdrawal if such a stop order should be issued. The Company will advise the Agent promptly after it receives any request by the Commission for any amendments to the Registration Statement or any amendment or supplements to the Prospectus or any Issuer Free Writing Prospectus or for additional information related to the offering of the Placement Shares or for additional information related to the Registration Statement, the Prospectus or any Issuer Free Writing Prospectus.

c. <u>Delivery of Prospectus: Subsequent Changes</u>. During the Prospectus Delivery Period, the Company will comply with all requirements imposed upon it by the Securities Act, as from time to time in force, and to file on or before their respective due dates all reports and any definitive proxy or information statements required to be filed by the Company with the Commission pursuant to Sections 13(a), 13(c), 14, 15(d) or any other provision of or under the Exchange Act. If the Company has omitted any information from the Registration Statement pursuant to Rule 430A under the Securities Act, it will use its commercially reasonable efforts to comply with the provisions of and make all requisite filings with the Commission pursuant to said Rule 430A and to notify the Agent promptly of all such filings. If during the Prospectus Delivery Period any event occurs as a result of which the Prospectus as then amended or supplemented would include an untrue statement of a material fact or omit to state a material fact necessary to make the statements therein, in the light of the circumstances then existing, not misleading, or if during such Prospectus Delivery Period it is necessary to amend or supplement the Registration Statement or Prospectus to comply with the Securities Act, the Company will promptly notify the Agent to suspend the offering of Placement Shares during such period and the Company will promptly amend or supplement the Registration Statement or Prospectus (at the expense of the Company) so as to correct such statement or omission or effect such compliance; *provided, however*, that the Company may delay the filing of any amendment or supplement, if in the judgment of the Company, it is in the best interest of the Company.

d. <u>Listing of Placement Shares</u>. During the Prospectus Delivery Period, the Company will use its commercially reasonable efforts to cause the Placement Shares to be listed on the Exchange and to qualify the Placement Shares for sale under the securities laws of such jurisdictions in the United States as the Agent reasonably designates and to continue such qualifications in effect so long as required for the distribution of the Placement Shares; *provided, however*, that the Company shall not be required in connection therewith to qualify as a foreign corporation or dealer in securities, file a general consent to service of process, or subject itself to taxation in any jurisdiction if it is not otherwise so subject.

e. <u>Delivery of Registration Statement and Prospectus</u>. The Company will furnish to the Agent and its counsel (at the reasonable expense of the Company) copies of the Registration Statement, the Prospectus (including all documents incorporated by reference therein) and all amendments and supplements to the Registration Statement or Prospectus that are filed with the Commission during the Prospectus Delivery Period (including all documents filed with the Commission during such period that are deemed to be incorporated by reference therein), in each case as soon as reasonably practicable and in such quantities as the Agent may from time to time reasonably request and, at the Agent's request, will also furnish copies of the Prospectus to each exchange or market on which sales of the Placement Shares may be made; *provided, however*, that the Company shall not be required to furnish any document (other than the Prospectus) to the Agent to the extent such document is available on EDGAR.

f. <u>Earnings Statement</u>. The Company will make generally available to its security holders as soon as practicable, but in any event not later than 15 months after the end of

the Company's current fiscal quarter, an earnings statement covering a 12-month period that satisfies the provisions of Section 11(a) and Rule 158 of the Securities Act.

g. <u>Use of Proceeds</u>. The Company will use the Net Proceeds as described in the Prospectus in the section entitled "Use of Proceeds."

h. Notice of Other Sales. Without the prior notice to the Agent, the Company will not, directly or indirectly, offer to sell, sell, contract to sell, grant any option to sell or otherwise dispose of any Common Stock (other than the Placement Shares offered pursuant to this Agreement) or securities convertible into or exchangeable for Common Stock, warrants or any rights to purchase or acquire, Common Stock during the period beginning on the date on which any Placement Notice is delivered to the Agent hereunder and ending on the third (3rd) Trading Day immediately following the final Settlement Date with respect to Placement Shares sold pursuant to such Placement Notice (or, if the Placement Notice has been terminated or suspended prior to the sale of all Placement Shares covered by a Placement Notice, the date of such suspension or termination); and will not directly or indirectly in any other "at the market" or continuous equity transaction offer to sell, sell, contract to sell, grant any option to sell or otherwise dispose of any Common Stock (other than the Placement Shares offered pursuant to this Agreement) or securities convertible into or exchangeable for Common Stock, warrants or any rights to purchase or acquire, Common Stock prior to the termination of this Agreement; provided, however, that such restrictions will not apply in connection with the Company's issuance, grant or sale of (i) Common Stock, options to purchase Common Stock or Common Stock issuable upon the exercise of options or other equity awards including restricted stock units, pursuant to any stock option, or benefits plan, stock ownership plan or dividend reinvestment plan (but not Common Stock subject to a waiver to exceed plan limits in its dividend reinvestment plan), stock bonus or other stock plan or arrangement of the Company whether now in effect or hereafter implemented; (ii) Common Stock issuable upon conversion of securities or the exercise of warrants, options, restricted stock units or other rights in effect or outstanding, and disclosed in filings by the Company available on EDGAR or otherwise in writing to the Agent, (iii) Common Stock, or securities convertible into or exercisable for Common Stock, offered and sold in a privately negotiated transaction to vendors, customers, strategic partners or potential strategic partners or other investors conducted in a manner so as not to be integrated with the offering of Common Stock hereby, (iv) any shares of Common Stock issuable upon the exchange, conversion or redemption of securities or the exercise of warrants, options or other rights in effect or outstanding; (v) Common Stock or securities convertible into or exercisable for Common Stock in connection with any acquisition, strategic investment or other similar transaction (including any joint venture, strategic alliance or partnership); and (vi) Common Stock issuable pursuant to any earnouts or contingent consideration, including any earn-out shares issuable in connection with the business combination or "De-SPAC" transaction between Luminar Technologies, Inc. and Gores Metropoulos.

i. <u>Change of Circumstances</u>. The Company will, at any time during the pendency of a Placement Notice advise the Agent promptly after it shall have received notice or obtained knowledge thereof, of any information or fact that would alter or affect in any material

respect any opinion, certificate, letter or other document required to be provided to the Agent pursuant to this Agreement.

j. <u>Due Diligence Cooperation</u>. During the term of this Agreement, the Company will cooperate with any reasonable due diligence review conducted by the Agent or its representatives in connection with the transactions contemplated hereby, including, without limitation, providing information and making available documents and senior corporate officers, during regular business hours and at the Company's principal offices, as the Agent may reasonably request.

k. <u>Required Filings Relating to Placement of Placement Shares</u>. The Company agrees that on such dates as the Securities Act shall require, the Company will (i) file a prospectus supplement with the Commission under the applicable paragraph of Rule 424(b) under the Securities Act (each and every date a filing under Rule 424(b) is made, a "<u>Filing Date</u>"), which prospectus supplement will set forth, within the relevant period, the amount of Placement Shares sold through the Agent, the Net Proceeds to the Company and the compensation payable by the Company to the Agent with respect to such Placement Shares, and (ii) deliver such number of copies of each such prospectus supplement to each exchange or market on which such sales were effected as may be required by the rules or regulations of such exchange or market.

1. <u>Representation Dates; Certificate</u>. Each time during the term of this Agreement that the Company:

(i) amends or supplements (other than a prospectus supplement relating solely to an offering of securities other than the Placement Shares) the Registration Statement or the Prospectus relating to the Placement Shares by means of a post-effective amendment, sticker, or supplement but not by means of incorporation of documents by reference into the Registration Statement or the Prospectus relating to the Placement Shares;

(ii) files an annual report on Form 10-K under the Exchange Act (including any Form 10-K/A containing amended audited financial information or a material amendment to the previously filed Form 10-K);

(iii) files its quarterly reports on Form 10-Q under the Exchange Act; or

(iv) files a current report on Form 8-K containing amended financial information (other than information "furnished" pursuant to Items 2.02 or 7.01 of Form 8-K or to provide disclosure pursuant to Item 8.01 of Form 8-K relating to the reclassification of certain properties as discontinued operations in accordance with Statement of Financial Accounting Standards No. 144) under the Exchange Act;

(Each date of filing of one or more of the documents referred to in clauses (i) through (iv) shall be a "Representation Date.")

the Company shall furnish the Agent (but in the case of clause (iv) above only if the Agent reasonably determines that the information contained in such Form 8-K is material) with a certificate, in the form attached hereto as Exhibit 7(1). The requirement to provide a certificate under this Section 7(1) shall be waived for any Representation Date occurring at a time at which no Placement Notice is pending, which waiver shall continue until the earlier to occur of the date the Company delivers a Placement Notice hereunder (which for such calendar quarter shall be considered a Representation Date) and the next occurring Representation Date on which the Company files its annual report on Form 10-K. Notwithstanding the foregoing, (i) upon the delivery of the first Placement Notice hereunder and (ii) if the Company subsequently decides to sell Placement Shares following a Representation Date when the Company relied on such waiver and did not provide the Agent with a certificate under this Section 7(1), then before the Agent sells any Placement Shares, the Company shall provide the Agent with a certificate, in the form attached hereto as Exhibit 7(1), dated the date of the Placement Notice.

m. Legal Opinion. On or prior to the date of the first Placement Notice given hereunder the Company shall cause to be furnished to the Agent a written opinion and a negative assurance letter of Orrick, Herrington & Sutcliffe LLP ("<u>Company Counsel</u>"), or other counsel reasonably satisfactory to the Agent, each in form and substance reasonably satisfactory to the Agent. Thereafter, within five (5) Trading Days of each Representation Date with respect to which the Company is obligated to deliver a certificate in the form attached hereto as Exhibit 7(1) for which no waiver is applicable, the Company shall cause to be furnished to the Agent a negative assurance letter of Company Counsel in form and substance reasonably satisfactory to the Agent; provided that, in lieu of such negative assurance for subsequent periodic filings under the Exchange Act, counsel may furnish the Agent with a letter (a "<u>Reliance Letter</u>") to the effect that the Agent may rely on the negative assurance letter previously delivered under this Section 7(m) to the same extent as if it were dated the date of such letter (except that statements in such prior letter shall be deemed to relate to the Registration Statement and the Prospectus as amended or supplemented as of the date of the Reliance Letter).

n. <u>Comfort Letter</u>. On or prior to the date of the first Placement Notice given hereunder and within five (5) Trading Days after each subsequent Representation Date, other than pursuant to Section 7(1)(iii), the Company shall cause its independent accountants to furnish the Agent letters (the "<u>Comfort Letters</u>"), dated the date the Comfort Letter is delivered, which shall meet the requirements set forth in this <u>Section 7(n)</u>. The Comfort Letter from the Company's independent accountants shall be in a form and substance reasonably satisfactory to the Agent, (i) confirming that they are an independent public accounting firm within the meaning of the Securities Act and the Public Company Accounting Oversight Board (the "<u>PCAOB</u>"), (ii) stating, as of such date, the conclusions and findings of such firm with respect to the financial information and other matters ordinarily covered by accountants "comfort letters" to underwriters in connection with registered public offerings (the first such letter, the "<u>Initial Comfort Letter</u>") and (iii) updating the Initial Comfort Letter with any information that would have been included in the Initial Comfort Letter had it been given on such date and modified as necessary to relate to the Registration Statement and the Prospectus, as amended and supplemented to the date of such letter.

o. <u>Market Activities</u>. The Company will not, directly or indirectly, (i) take any action designed to cause or result in, or that constitutes or would constitute, the stabilization or manipulation of the price of any security of the Company to facilitate the sale or resale of Common Stock or (ii) sell, bid for, or purchase Common Stock in violation of Regulation M, or pay anyone any compensation for soliciting purchases of the Placement Shares other than the Agent.

p. <u>Investment Company Act</u>. The Company will conduct its affairs in such a manner so as to reasonably ensure that neither it nor the Subsidiaries will be or become, at any time prior to the termination of this Agreement, an "investment company," as such term is defined in the Investment Company Act.

q. <u>No Offer to Sell</u>. Other than an Issuer Free Writing Prospectus approved in advance by the Company and the Agent in its capacity as agent hereunder pursuant to <u>Section 23</u>, neither of the Agent nor the Company (including its agents and representatives, other than the Agent in its capacity as such) will make, use, prepare, authorize, approve or refer to any written communication (as defined in Rule 405), required to be filed with the Commission, that constitutes an offer to sell or solicitation of an offer to buy Placement Shares hereunder.

r. <u>Sarbanes-Oxley Act</u>. The Company will maintain and keep accurate books and records reflecting its assets and maintain internal accounting controls in a manner designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with GAAP and including those policies and procedures that (i) pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the Company, (ii) provide reasonable assurance that transactions are recorded as necessary to permit the preparation of the Company's consolidated financial statements in accordance with GAAP, (iii) that receipts and expenditures of the Company are being made only in accordance with management's and the Company's directors' authorization, and (iv) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the Company's assets that could have a material effect on its financial statements. The Company will maintain disclosure controls and procedures that comply with the requirements of the Exchange Act.

8. <u>Representations and Covenants of the Agent</u>. The Agent represents and warrants that it is duly registered as a broker-dealer under FINRA, the Exchange Act and the applicable statutes and regulations of each state in which the Placement Shares will be offered and sold, except such states in which the Agent is exempt from registration or such registration is not otherwise required. The Agent shall continue, for the term of this Agreement, to be duly registered as a broker-dealer under FINRA, the Exchange Act and the applicable statutes and regulations of each state in which the Placement Shares will be offered and sold, except such states in which it is exempt from registration or such registration is not otherwise required, during the term of this Agreement. The Agent shall comply with all applicable law and regulations in connection with the transactions contemplated by this Agreement, including the issuance and sale through the Agent of the Placement Shares.

9. Payment of Expenses. The Company will pay all expenses incident to the performance of its obligations under this Agreement, including (i) the preparation, filing, including any fees required by the Commission, and printing of the Registration Statement (including financial statements and exhibits) as originally filed and of each amendment and supplement thereto and each Free Writing Prospectus, in such number as the Agent shall deem reasonably necessary, (ii) the printing and delivery to the Agent of this Agreement and such other documents as may be required in connection with the offering, purchase, sale, issuance or delivery of the Placement Shares, (iii) the preparation, issuance and delivery of the certificates, if any, for the Placement Shares to the Agent, including any stock or other transfer taxes and any capital duties, stamp duties or other duties or taxes payable upon the sale, issuance or delivery of the Placement Shares to the Agent, (iv) the fees and disbursements of the counsel, accountants and other advisors to the Company, (v) the reasonable and documented out-of-pocket fees and disbursements of counsel to the Agent not to exceed \$50,000 in the aggregate; (vi) the fees and expenses of the transfer agent and registrar for the Common Stock, (vii) the filing fees incident to any review by FINRA of the terms of the sale of the Placement Shares not to exceed \$5,000, and (viii) the fees and expenses incurred in connection with the listing of the Placement Shares on the Exchange.

10. <u>Conditions to the Agent's Obligations</u>. The obligations of the Agent hereunder with respect to a Placement will be subject to the continuing accuracy and completeness of the representations and warranties made by the Company herein (other than those representations and warranties made as of a specified date or time), to the due performance in all material respects by the Company of its obligations hereunder, to the completion by the Agent of a due diligence review satisfactory to it in its reasonable judgment, and to the continuing reasonable satisfaction (or waiver by the Agent in its sole discretion) of the following additional conditions:

a. <u>Registration Statement Effective</u>. The Registration Statement shall remain effective and shall be available for the sale of all Placement Shares contemplated to be issued by any Placement Notice.

b. <u>No Material Notices</u>. None of the following events shall have occurred and be continuing: (i) receipt by the Company of any request for additional information from the Commission or any other federal or state governmental authority during the period of effectiveness of the Registration Statement, the response to which would require any post-effective amendments or supplements to the Registration Statement or the Prospectus; (ii) the issuance by the Commission or any other federal or state governmental authority of any stop order suspending the effectiveness of the Registration Statement or receipt by the Company of notification of the initiation of any proceedings for that purpose; (iii) receipt by the Company of any notification with respect to the suspension of the qualification or exemption from qualification of any of the Placement Shares for sale in any jurisdiction or receipt by the Company of notification of the initiation of, or a threat to initiate, any proceeding for such purpose; or (iv) the occurrence of any event that makes any material statement made in the Registration Statement or the Prospectus or any material Incorporated Document untrue in any material respect or that requires the making of any changes in the Registration Statement, the Prospectus or any material Incorporated Document so that, in the case of the Registration

Statement, it will not contain any materially untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary to make the statements therein not misleading and, that in the case of the Prospectus or any material Incorporated Document, it will not contain any materially untrue statement of a material fact or omit to state any material fact required to be stated therein or necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading.

c. <u>No Misstatement or Material Omission</u>. The Agent shall not have advised the Company that the Registration Statement or Prospectus, or any amendment or supplement thereto, contains an untrue statement of fact that in the Agent's reasonable opinion is material, or omits to state a fact that in the Agent's reasonable opinion is material and is required to be stated therein or is necessary to make the statements therein not misleading.

d. <u>Material Changes</u>. Except as contemplated in the Prospectus, or disclosed in the Company's reports filed with the Commission, there shall not have been any Material Adverse Effect, or any development that would cause a Material Adverse Effect, or a downgrading in or withdrawal of the rating assigned to any of the Company's securities (other than asset backed securities) by any "nationally recognized statistical rating organization," as such term is defined by the Commission for purposes of Rule 436(g)(2) under the Securities Act (a "<u>Rating Organization</u>"), or a public announcement by any Rating Organization that it has under surveillance or review its rating of any of the Company's securities (other than asset backed securities), the effect of which, in the case of any such action by a Rating Organization described above, in the reasonable judgment of the Agent (without relieving the Company of any obligation or liability it may otherwise have), is so material as to make it impracticable or inadvisable to proceed with the offering of the Placement Shares on the terms and in the manner contemplated in the Prospectus.

e. <u>Company Counsel Legal Opinion</u>. The Agent shall have received the opinion and negative assurance letter of Company Counsel required to be delivered pursuant to <u>Section 7(m)</u> on or before the date on which such delivery of such opinion and negative assurance letter are required pursuant to <u>Section 7(m)</u>.

f. <u>Agent Counsel Legal Opinion</u>. Agent shall have received from Duane Morris LLP, counsel for the Agent, such opinion or opinions, on or before the date on which the delivery of the Company Counsel legal opinion is required pursuant to <u>Section 7(m)</u>, with respect to such matters as the Agent may reasonably require, and the Company shall have furnished to such counsel such documents as they request for enabling them to pass upon such matters.

g. <u>Comfort Letter</u>. The Agent shall have received the Comfort Letter required to be delivered pursuant <u>Section 7(n)</u> on or before the date on which such delivery of such letter is required pursuant to <u>Section 7(n)</u>.

h. <u>Representation Certificate</u>. The Agent shall have received the certificate required to be delivered pursuant to <u>Section 7(1)</u> on or before the date on which delivery of such certificate is required pursuant to <u>Section 7(1)</u>.

i. <u>Secretary's Certificate</u>. On or prior to the first Representation Date, the Agent shall have received a certificate, signed on behalf of the Company by its corporate Secretary, in form and substance satisfactory to the Agent and its counsel.

j. <u>No Suspension</u>. Trading in the Common Stock shall not have been suspended on the Exchange and the Common Stock shall not have been delisted from the Exchange.

k. <u>Other Materials</u>. On each date on which the Company is required to deliver a certificate pursuant to <u>Section 7(1)</u>, the Company shall have furnished to the Agent such appropriate further information, certificates and documents as the Agent may reasonably request and which are usually and customarily furnished by an issuer of securities in connection with a securities offering of the type contemplated hereby. All such opinions, certificates, letters and other documents will be in compliance with the provisions hereof.

l. <u>Securities Act Filings Made</u>. All filings with the Commission required by Rule 424 under the Securities Act to have been filed prior to the issuance of any Placement Notice hereunder shall have been made within the applicable time period prescribed for such filing by Rule 424.

m. <u>Approval for Listing</u>. The Placement Shares shall either have been approved for listing on the Exchange, subject only to notice of issuance, or the Company shall have filed an application for listing of the Placement Shares on the Exchange at, or prior to, the issuance of any Placement Notice.

n. <u>No Termination Event</u>. There shall not have occurred any event that would permit the Agent to terminate this Agreement pursuant to <u>Section 13(a)</u>.

# 11. <u>Indemnification and Contribution</u>.

(a) <u>Company Indemnification</u>. The Company agrees to indemnify and hold harmless the Agent, its partners, members, directors, officers, employees and agents and each person, if any, who controls the Agent within the meaning of Section 15 of the Securities Act or Section 20 of the Exchange Act as follows:

(i) against any and all loss, liability, claim, damage and expense whatsoever, as incurred, joint or several, arising out of or based upon any untrue statement or alleged untrue statement of a material fact contained in the Registration Statement (or any amendment thereto), or the omission or alleged omission therefrom of a material fact required to be stated therein or necessary to make the statements therein not misleading, or arising out of any untrue statement or alleged untrue statement of a material fact included in any related Issuer Free Writing Prospectus or the Prospectus (or any amendment or supplement thereto), or the omission or alleged omission therefrom of a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading;

(ii) against any and all loss, liability, claim, damage and expense whatsoever, as incurred, joint or several, to the extent of the aggregate amount paid in settlement

of any litigation, or any investigation or proceeding by any governmental agency or body, commenced or threatened, or of any claim whatsoever based upon any such untrue statement or omission, or any such alleged untrue statement or omission; provided that (subject to <u>Section 11(d)</u> below) any such settlement is effected with the written consent of the Company, which consent shall not unreasonably be delayed or withheld; and

(iii) against any and all expense whatsoever, as incurred (including the reasonable and documented out-of-pocket fees and disbursements of counsel), reasonably incurred in investigating, preparing or defending against any litigation, or any investigation or proceeding by any governmental agency or body, commenced or threatened, or any claim whatsoever based upon any such untrue statement or omission, or any such alleged untrue statement or omission, to the extent that any such expense is not paid under (i) or (ii) above,

*provided, however*, that this indemnity agreement shall not apply to any loss, liability, claim, damage or expense to the extent arising out of any untrue statement or omission or alleged untrue statement or omission made solely in reliance upon and in conformity with written information furnished to the Company by the Agent expressly for use in the Registration Statement (or any amendment thereto), or in any related Issuer Free Writing Prospectus or the Prospectus (or any amendment or supplement thereto).

(b) Indemnification by the Agent. The Agent agrees to indemnify and hold harmless the Company and its directors and officers, and each person, if any, who (i) controls the Company within the meaning of Section 15 of the Securities Act or Section 20 of the Exchange Act or (ii) is controlled by or is under common control with the Company against any and all loss, liability, claim, damage and expense described in the indemnity contained in Section 11(a), as incurred, but only with respect to untrue statements or omissions, or alleged untrue statements or omissions, made in the Registration Statement (or any amendments thereto) or in any related Issuer Free Writing Prospectus or the Prospectus (or any amendment or supplement thereto) in reliance upon and in conformity with information relating to the Agent and furnished to the Company in writing by the Agent expressly for use therein.

(c) <u>Procedure</u>. Any party that proposes to assert the right to be indemnified under this <u>Section 11</u> will, promptly after receipt of notice of commencement of any action against such party in respect of which a claim is to be made against an indemnifying party or parties under this <u>Section 11</u>, notify each such indemnifying party of the commencement of such action, enclosing a copy of all papers served, but the omission so to notify such indemnifying party will not relieve the indemnifying party from (i) any liability that it might have to any indemnified party otherwise than under this <u>Section 11</u> and (ii) any liability that it may have to any indemnified party under the foregoing provisions of this <u>Section 11</u> unless, and only to the extent that, such omission results in the forfeiture of substantive rights or defenses by the indemnifying party will be entitled to participate in and, to the extent that it elects by delivering written notice to the indemnifying party promptly after receiving notice of the commencement of the action from the indemnified party, jointly with any other indemnifying party similarly notified, to assume the defense of the action, with

counsel reasonably satisfactory to the indemnified party, and after notice from the indemnifying party to the indemnified party of its election to assume the defense, the indemnifying party will not be liable to the indemnified party for any legal or other expenses except as provided below and except for the reasonable costs of investigation subsequently incurred by the indemnified party in connection with the defense. The indemnified party will have the right to employ its own counsel in any such action, but the fees, expenses and other charges of such counsel will be at the expense of such indemnified party unless (1) the employment of counsel by the indemnified party has been authorized in writing by the indemnifying party, (2) the indemnified party has reasonably concluded (based on advice of counsel) that there may be legal defenses available to it or other indemnified parties that are different from or in addition to those available to the indemnifying party, (3) a conflict or potential conflict of interest exists (based on advice of counsel to the indemnified party) between the indemnified party and the indemnifying party (in which case the indemnifying party will not have the right to direct the defense of such action on behalf of the indemnified party) or (4) the indemnifying party has not in fact employed counsel to assume the defense of such action within a reasonable time after receiving notice of the commencement of the action, in each of which cases the reasonable and documented out-of-pocket fees, disbursements and other charges of counsel will be at the expense of the indemnifying party or parties. It is understood that the indemnifying party or parties shall not, in connection with any proceeding or related proceedings in the same jurisdiction, be liable for the reasonable and documented out-of-pocket fees, disbursements and other charges of more than one separate firm admitted to practice in such jurisdiction at any one time for all such indemnified party or parties. All such reasonable and documented out-of-pocket fees, disbursements and other charges will be reimbursed by the indemnifying party promptly after the indemnifying party receives a written invoice relating to fees, disbursements and other charges in reasonable detail. An indemnifying party will not, in any event, be liable for any settlement of any action or claim effected without its written consent. No indemnifying party shall, without the prior written consent of each indemnified party, settle or compromise or consent to the entry of any judgment in any pending or threatened claim, action or proceeding relating to the matters contemplated by this Section 11 (whether or not any indemnified party is a party thereto), unless such settlement, compromise or consent (1) includes an unconditional release of each indemnified party from all liability arising out of such litigation, investigation, proceeding or claim and (2) does not include a statement as to or an admission of fault, culpability or a failure to act by or on behalf of any indemnified party.

(d) <u>Contribution</u>. In order to provide for just and equitable contribution in circumstances in which the indemnification provided for in the foregoing paragraphs of this <u>Section 11</u> is applicable in accordance with its terms but for any reason is held to be unavailable from the Company or the Agent, the Company and the Agent will contribute to the total losses, claims, liabilities, expenses and damages (including any investigative, legal and other expenses reasonably incurred in connection with, and any amount paid in settlement of, any action, suit or proceeding or any claim asserted, but after deducting any contribution received by the Company from persons other than the Agent, such as persons who control the Company within the meaning of the Securities Act or the Exchange Act, officers of the Company who signed the Registration Statement and directors of the Company, who also may be liable for contribution) to which the Company and the Agent may be subject in such proportion as shall be appropriate to

reflect the relative benefits received by the Company on the one hand and the Agent on the other hand. The relative benefits received by the Company on the one hand and the Agent on the other hand shall be deemed to be in the same proportion as the total Net Proceeds from the sale of the Placement Shares (before deducting expenses) received by the Company bear to the total compensation received by the Agent (before deducting expenses) from the sale of Placement Shares on behalf of the Company. If, but only if, the allocation provided by the foregoing sentence is not permitted by applicable law, the allocation of contribution shall be made in such proportion as is appropriate to reflect not only the relative benefits referred to in the foregoing sentence but also the relative fault of the Company, on the one hand, and the Agent, on the other hand, with respect to the statements or omission that resulted in such loss, claim, liability, expense or damage, or action in respect thereof, as well as any other relevant equitable considerations with respect to such offering. Such relative fault shall be determined by reference to, among other things, whether the untrue or alleged untrue statement of a material fact or omission or alleged omission to state a material fact relates to information supplied by the Company or the Agent, the intent of the parties and their relative knowledge, access to information and opportunity to correct or prevent such statement or omission. The Company and the Agent agree that it would not be just and equitable if contributions pursuant to this Section 11(d) were to be determined by pro rata allocation or by any other method of allocation that does not take into account the equitable considerations referred to herein. The amount paid or payable by an indemnified party as a result of the loss, claim, liability, expense, or damage, or action in respect thereof, referred to above in this Section 11(d) shall be deemed to include, for the purpose of this Section 11(d), any legal or other expenses reasonably incurred by such indemnified party in connection with investigating or defending any such action or claim to the extent consistent with Section 11(c) hereof. Notwithstanding the foregoing provisions of this Section 11(d), the Agent shall not be required to contribute any amount in excess of the commissions received by it under this Agreement and no person found guilty of fraudulent misrepresentation (within the meaning of Section 11(f) of the Securities Act) will be entitled to contribution from any person who was not guilty of such fraudulent misrepresentation. For purposes of this Section 11(d), any person who controls a party to this Agreement within the meaning of the Securities Act or the Exchange Act, and any officers, directors, partners, employees or agents of the Agent, will have the same rights to contribution as that party, and each officer who signed the Registration Statement and director of the Company will have the same rights to contribution as the Company, subject in each case to the provisions hereof. Any party entitled to contribution, promptly after receipt of notice of commencement of any action against such party in respect of which a claim for contribution may be made under this <u>Section 11(d)</u>, will notify any such party or parties from whom contribution may be sought, but the omission to so notify will not relieve that party or parties from whom contribution may be sought from any other obligation it or they may have under this Section 11(d) except to the extent that the failure to so notify such other party materially prejudiced the substantive rights or defenses of the party from whom contribution is sought. Except for a settlement entered into pursuant to the last sentence of Section 11(c) hereof, no party will be liable for contribution with respect to any action or claim settled without its written consent if such consent is required pursuant to Section 11(c) hereof.

12. <u>Representations and Agreements to Survive Delivery</u>. The indemnity and contribution agreements contained in Section 11 of this Agreement and all representations and warranties of the Company herein or in certificates delivered pursuant hereto shall survive, as of their respective dates, regardless of (i) any investigation made by or on behalf of the Agent, any controlling persons, or the Company (or any of their respective officers, directors or controlling persons), (ii) delivery and acceptance of the Placement Shares and payment therefor or (iii) any termination of this Agreement.

# 13. <u>Termination</u>.

The Agent may terminate this Agreement, by notice to the Company, as hereinafter specified at any time (1) if there has a. been, since the time of execution of this Agreement or since the date as of which information is given in the Prospectus, any Material Adverse Effect, or any development that would have a Material Adverse Effect that, in the sole judgment of the Agent, is material and adverse and makes it impractical or inadvisable to market the Placement Shares or to enforce contracts for the sale of the Placement Shares, (2) if there has occurred any material adverse change in the financial markets in the United States or the international financial markets, any outbreak of hostilities or escalation thereof or other calamity or crisis or any change or development involving a prospective change in national or international political, financial or economic conditions, in each case the effect of which is such as to make it, in the judgment of the Agent, impracticable or inadvisable to market the Placement Shares or to enforce contracts for the sale of the Placement Shares, (3) if trading in the Common Stock has been suspended or limited by the Commission or the Exchange, or if trading generally on the Exchange has been suspended or limited, or minimum prices for trading have been fixed on the Exchange, (4) if any suspension of trading of any securities of the Company on any exchange or in the over-the-counter market shall have occurred and be continuing, (5) if a major disruption of securities settlements or clearance services in the United States shall have occurred and be continuing, or (6) if a banking moratorium has been declared by either U.S. Federal or New York authorities. Any such termination shall be without liability of any party to any other party except that the provisions of Section 9 (Payment of Expenses), Section 11 (Indemnification and Contribution), Section 12 (Representations and Agreements to Survive Delivery), Section 18 (Governing Law and Time; Waiver of Jury Trial), Section 19 (Consent to Jurisdiction) and Section 25 ( Confidentiality) hereof shall remain in full force and effect notwithstanding such termination. If the Agent elects to terminate this Agreement as provided in this Section 13(a), the Agent shall provide the required notice as specified in Section 14 (Notices).

b. The Company shall have the right, by giving five (5) days' notice as hereinafter specified to terminate this Agreement in its sole discretion at any time after the date of this Agreement. Any such termination shall be without liability of any party to any other party except that the provisions of <u>Section 9</u> (Payment of Expenses), <u>Section 11</u> (Indemnification and Contribution), <u>Section 12</u> (Representations and Agreements to Survive Delivery), <u>Section 18</u> (Governing Law and Time; Waiver of Jury Trial), <u>Section 19</u> (Consent to Jurisdiction) and Section 25 (Confidentiality) hereof shall remain in full force and effect notwithstanding such termination.

c. The Agent shall have the right, by giving five (5) days' notice as hereinafter specified to terminate this Agreement in its sole discretion at any time after the date of this Agreement. Any such termination shall be without liability of any party to any other party except that the provisions of <u>Section 9</u> (Payment of Expenses), <u>Section 11</u> (Indemnification and Contribution), <u>Section 12</u> (Representations and Agreements to Survive Delivery), <u>Section 18</u> (Governing Law and Time; Waiver of Jury Trial), <u>Section 19</u> (Consent to Jurisdiction) and <u>Section 25</u> (Confidentiality) hereof shall remain in full force and effect notwithstanding such termination.

d. Unless earlier terminated pursuant to this <u>Section 13</u>, this Agreement shall automatically terminate upon the issuance and sale of all of the Placement Shares through the Agent on the terms and subject to the conditions set forth herein except that the provisions of <u>Section 9</u> (Payment of Expenses), <u>Section 11</u> (Indemnification and Contribution), <u>Section 12</u> (Representations and Agreements to Survive Delivery), <u>Section 18</u> (Governing Law and Time; Waiver of Jury Trial), <u>Section 19</u> (Consent to Jurisdiction) and Section 25 (Confidentiality) hereof shall remain in full force and effect notwithstanding such termination.

e. This Agreement shall remain in full force and effect unless terminated pursuant to <u>Sections 13(a)</u>, (b), (c), or (d) above or otherwise by mutual agreement of the parties; *provided, however*, that any such termination by mutual agreement shall in all cases be deemed to provide that <u>Section 9</u> (Payment of Expenses), <u>Section 11</u> (Indemnification and Contribution), <u>Section 12</u> (Representations and Agreements to Survive Delivery), <u>Section 18</u> (Governing Law and Time; Waiver of Jury Trial), <u>Section 19</u> (Consent to Jurisdiction) and <u>Section 25</u> (Confidentiality) shall remain in full force and effect. Upon termination of this Agreement, the Company shall not have any liability to the Agent for any discount, commission or other compensation with respect to any Placement Shares not otherwise sold by the Agent under this Agreement.

f. Any termination of this Agreement shall be effective on the date specified in such notice of termination; *provided*, *however*, that such termination shall not be effective until the close of business on the date of receipt of such notice by the Agent or the Company, as the case may be. If such termination shall occur prior to the Settlement Date for any sale of Placement Shares, such Placement Shares shall settle in accordance with the provisions of this Agreement.

14. <u>Notices</u>. All notices or other communications required or permitted to be given by any party to any other party pursuant to the terms of this Agreement shall be in writing, unless otherwise specified, and if sent to the Agent, shall be delivered to:

Virtu Americas LLC One Liberty Plaza 165 Broadway New York, NY 10006 Attention: Virtu Capital Markets Email:

with a copy to:

Duane Morris LLP 1540 Broadway New York, NY 10036 Attention: James T. Seery Telephone: Email:

and if to the Company, shall be delivered to:

Luminar Technologies, Inc. 2603 Discovery Drive Suite 100 Orlando, FL 32826 Attention: Telephone: Email:

with a copy to:

Orrick, Herrington & Sutcliffe LLP 631 Wilshire Boulevard Santa Monica, CA 90401 Attention: Daniel S. Kim Telephone: Email:

Each party to this Agreement may change such address for notices by sending to the parties to this Agreement written notice of a new address for such purpose. Each such notice or other communication shall be deemed given (i) when delivered personally, by email, or by verifiable facsimile transmission on or before 4:30 p.m., New York City time, on a Business Day or, if such day is not a Business Day, on the next succeeding Business Day, (ii) on the next Business Day after timely delivery to a nationally-recognized overnight courier and (iii) on the Business Day actually received if deposited in the U.S. mail (certified or registered mail, return receipt requested, postage prepaid). For purposes of this Agreement, "Business Day" shall mean any day on which the Exchange and commercial banks in the City of New York are open for business.

15. <u>Successors and Assigns</u>. This Agreement shall inure to the benefit of and be binding upon the Company and the Agent and their respective successors and the affiliates, controlling persons, officers and directors referred to in <u>Section 11</u> hereof. References to any of the parties contained in this Agreement shall be deemed to include the successors and permitted assigns of such party. Nothing in this Agreement, express or implied, is intended to confer upon any party other than the parties hereto or their respective successors and permitted assigns any rights, remedies, obligations or liabilities under or by reason of this Agreement, except as

expressly provided in this Agreement. Neither the Company nor the Agent may assign its rights or obligations under this Agreement without the prior written consent of the other party.

16. <u>Adjustments for Stock Splits</u>. The parties acknowledge and agree that all share-related numbers contained in this Agreement shall be adjusted to take into account any share consolidation, stock split, stock dividend, corporate domestication or similar event effected with respect to the Placement Shares.

17. Entire Agreement; Amendment; Severability. This Agreement (including all schedules and exhibits attached hereto and Placement Notices issued pursuant hereto) constitutes the entire agreement and supersedes all other prior and contemporaneous agreements and undertakings, both written and oral, among the parties hereto with regard to the subject matter hereof. Neither this Agreement nor any term hereof may be amended except pursuant to a written instrument executed by the Company and the Agent. In the event that any one or more of the provisions contained herein, or the application thereof in any circumstance, is held invalid, illegal or unenforceable as written by a court of competent jurisdiction, then such provision shall be given full force and effect to the fullest possible extent that it is valid, legal and enforceable, and the remainder of the terms and provisions herein shall be construed as if such invalid, illegal or unenforceable term or provision was not contained herein, but only to the extent that giving effect to such provision and the remainder of the terms and provisions herein shall be in accordance with the intent of the parties as reflected in this Agreement.

18. <u>GOVERNING LAW AND TIME; WAIVER OF JURY TRIAL</u>. THIS AGREEMENT SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK WITHOUT REGARD TO THE PRINCIPLES OF CONFLICTS OF LAWS. SPECIFIED TIMES OF DAY REFER TO NEW YORK CITY TIME. THE COMPANY AND THE AGENT EACH HEREBY IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY LEGAL PROCEEDING ARISING OUT OF OR RELATING TO THIS AGREEMENT OR THE TRANSACTIONS CONTEMPLATED HEREBY.

19. CONSENT TO JURISDICTION. EACH PARTY HEREBY IRREVOCABLY SUBMITS TO THE NON-EXCLUSIVE JURISDICTION OF THE STATE AND FEDERAL COURTS SITTING IN THE CITY OF NEW YORK, BOROUGH OF MANHATTAN, FOR THE ADJUDICATION OF ANY DISPUTE HEREUNDER OR IN CONNECTION WITH ANY TRANSACTION CONTEMPLATED HEREBY, AND HEREBY IRREVOCABLY WAIVES, AND AGREES NOT TO ASSERT IN ANY SUIT, ACTION OR PROCEEDING, ANY CLAIM THAT IT IS NOT PERSONALLY SUBJECT TO THE JURISDICTION OF ANY SUCH COURT, THAT SUCH SUIT, ACTION OR PROCEEDING IS BROUGHT IN AN INCONVENIENT FORUM OR THAT THE VENUE OF SUCH SUIT, ACTION OR PROCEEDING IS IMPROPER. EACH PARTY HEREBY IRREVOCABLY WAIVES PERSONAL SERVICE OF PROCESS AND CONSENTS TO PROCESS BEING SERVED IN ANY SUCH SUIT, ACTION OR PROCEEDING BY MAILING A COPY THEREOF (CERTIFIED OR REGISTERED MAIL, RETURN RECEIPT REQUESTED) TO SUCH PARTY AT THE ADDRESS IN EFFECT FOR NOTICES TO IT UNDER THIS AGREEMENT AND AGREES THAT SUCH SERVICE SHALL CONSTITUTE GOOD AND

# SUFFICIENT SERVICE OF PROCESS AND NOTICE THEREOF. NOTHING CONTAINED HEREIN SHALL BE DEEMED TO LIMIT IN ANY WAY ANY RIGHT TO SERVE PROCESS IN ANY MANNER PERMITTED BY LAW.

20. <u>Use of Information</u>. The Agent may not use any information gained in connection with this Agreement and the transactions contemplated by this Agreement, including due diligence, to advise any party with respect to transactions not expressly approved by the Company.

21. <u>Counterparts</u>. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Delivery of an executed Agreement by one party to the other may be made by facsimile transmission or email of a .pdf attachment.

22. <u>Effect of Headings</u>. The section, Schedule and Exhibit headings herein are for convenience only and shall not affect the construction hereof.

23. <u>Permitted Free Writing Prospectuses</u>. The Company represents, warrants and agrees that, unless it obtains the prior consent of the Agent, and the Agent represents, warrants and agrees that, unless it obtains the prior consent of the Company, it has not made and will not make any offer relating to the Placement Shares that would constitute an Issuer Free Writing Prospectus, or that would otherwise constitute a "free writing prospectus," as defined in Rule 405, required to be filed with the Commission. Any such free writing prospectus consented to by the Agent or by the Company, as the case may be, is hereinafter referred to as a "Permitted Free Writing Prospectus." The Company represents and warrants that it has treated and agrees that it will treat each Permitted Free Writing Prospectus as an "issuer free writing prospectus," as defined in Rule 433, and has complied and will comply with the requirements of Rule 433 applicable to any Permitted Free Writing Prospectus, including timely filing with the Commission where required, legending and record keeping. For the purposes of clarity, the parties hereto agree that all free writing prospectuses, if any, listed in <u>Exhibit 23</u> hereto are Permitted Free Writing Prospectuses.

24. <u>Absence of Fiduciary Relationship</u>. The Company acknowledges and agrees that:

a. The Agent is acting solely as agent in connection with the public offering of the Placement Shares and in connection with each transaction contemplated by this Agreement and the process leading to such transactions, and no fiduciary or advisory relationship between the Company or any of its respective affiliates, stockholders (or other equity holders), creditors or employees or any other party, on the one hand, and the Agent, on the other hand, has been or will be created in respect of any of the transactions contemplated by this Agreement, irrespective of whether or not the Agent has advised or is advising the Company on other matters, and the Agent has no obligation to the Company with respect to the transactions contemplated by this Agreement except the obligations expressly set forth in this Agreement;

b. it is capable of evaluating and understanding, and understands and accepts, the terms, risks and conditions of the transactions contemplated by this Agreement;

c. the Agent has not provided any legal, accounting, regulatory or tax advice with respect to the transactions contemplated by this Agreement and it has consulted its own legal, accounting, regulatory and tax advisors to the extent it has deemed appropriate;

d. it is aware that the Agent and its affiliates are engaged in a broad range of transactions which may involve interests that differ from those of the Company and the Agent has no obligation to disclose such interests and transactions to the Company by virtue of any fiduciary, advisory or agency relationship or otherwise; and

e. it waives, to the fullest extent permitted by law, any claims it may have against the Agent for breach of fiduciary duty or alleged breach of fiduciary duty in connection with the sale of Placement Shares under this Agreement and agrees that the Agent shall not have any liability (whether direct or indirect, in contract, tort or otherwise) to it in respect of such a fiduciary duty claim or to any person asserting a fiduciary duty claim on its behalf or in right of it or the Company, employees or creditors of Company, other than in respect of the Agent's obligations under this Agreement and to keep information provided by the Company to the Agent and its counsel confidential to the extent not otherwise publicly-available as set forth in Section 25 below.

Confidentiality. Each party hereto ("Discloser") may disclose to the other party ("Recipient") Confidential Information (defined 2.5 herein). Recipient shall keep strictly confidential and shall not disclose to any third party any Confidential Information of the Discloser made available to the Recipient by the Discloser, whether made available before, on or after the date hereof, and shall use such Confidential Information solely for the purposes of performing the services hereunder or for the Program; provided, however, that such Confidential Information shall not include any information (i) available to or in possession of the Recipient prior to the time of its disclosure to the Recipient by the Discloser as demonstrated by files in existence at the time of disclosure; (ii) generally available to the public through no fault of the Recipient; or (iii) which becomes available to the Recipient on a non-confidential basis from any third party who is not bound by a confidentiality obligation to the Discloser without breach of this Agreement by the Recipient; and provided, further, that such Confidential Information may be disclosed (i) to the Recipient's Representatives (as defined herein) who (A) need to know such information in connection with the performance by the Recipient of its services hereunder and (B) have been informed of the confidential nature of such information and that the disclosure thereof is subject to the restrictions contained in this Agreement; provided further that the Recipient shall remain liable for any breach of such restrictions by any of the Recipient's Representatives; (ii) to any person with the prior written consent of the Discloser; or (iii) pursuant to the order or requirement of a court, administrative agency, or other governmental body; provided, however, that the Recipient shall provide prompt notice of such court order or requirement to the Discloser to enable the Discloser to seek a protective order or otherwise prevent or restrict such disclosure, and in the event that the Discloser is unable to obtain a protective order or other appropriate remedy, or if it so directs the Recipient, the Recipient shall furnish only that portion of the confidential information that the Recipient is advised by written opinion of its counsel is legally required to be furnished by it and shall exercise its reasonable best efforts to obtain reliable assurance that confidential treatment shall be accorded such



confidential information. Notwithstanding anything to the contrary set forth in this Agreement, the Company and the Agent each acknowledges and agrees that any breach by it of this Section 25 shall cause the other party irreparable harm which may not be adequately compensable by money damages. Accordingly, in the event of a breach or threatened breach by either party of this Section 25, the other party shall be entitled to seek the remedies of specific performance, injunction or other preliminary or equitable relief, without having to prove irreparable harm or actual damages and without the need for such other party to post a bond or other security. The foregoing right shall be in addition to such other rights or remedies as may be available to such other party for such breach or threatened breach, including but not limited to the recovery of money damages. The foregoing commitments of the Company and the Agent shall survive any termination of this Agreement and shall remain in effect for a period of five (5) years following termination of this Agreement, except that any of Discloser's Confidential Information qualifying as a trade secret under applicable law shall be subject to the terms of this Agreement for so long as such Confidential Information is protectable as a trade secret. Within ten (10) business days after receipt of Discloser's written request, Recipient shall return to Discloser any requested materials containing Discloser's Confidential Information including all copies, and shall destroy all of Discloser's Confidential Information stored in electronic format as well as any Notes (defined herein). Notwithstanding the foregoing, Confidential Information stored on backup systems that are not readily accessible need not be destroyed.

26. <u>Definitions</u>. As used in this Agreement, the following terms have the respective meanings set forth below:

"Affiliates" or "affiliates" of a party hereto are those entities that (i) control, (ii) are controlled by, or (iii) are under common control with such party, where "control" means ownership of more than 50% of an entity's voting securities.

"Applicable Time" means (i) each Representation Date and (ii) the time of each sale of any Placement Shares pursuant to this Agreement.

"<u>Confidential Information</u>" shall mean any information disclosed by or on behalf of Discloser to Recipient or its Representatives (defined herein) in connection with the Program that (i) is designated in writing to be confidential or proprietary, or (ii) if given orally, is confirmed in writing as having been disclosed as confidential or proprietary within thirty (30) days after the oral disclosure, (iii) is provided or described under circumstances by which Recipient knows or should reasonably understand such information is to be treated as confidential, whether or not so marked, or (iv) is learned by Recipient as a result of visiting the facilities of the Discloser. Confidential Information includes, without limitation, technical data, trade secrets, research, plans, software, inventions, patent applications, notebooks, processes, formulas, techniques, mask works, designs, drawings, hardware configurations, third party agreements, materials, samples, methodologies, test results, specifications, supply sources, customer information, supplier data, financial data, marketing data, licenses, contract information, or materials generated by Recipient or its Representatives that contain or are derived from Discloser's Confidential Information ("Notes").

"Issuer Free Writing Prospectus" means any "issuer free writing prospectus," as defined in Rule 433, relating to the Placement Shares that (1) is required to be filed with the Commission by the Company, (2) is a "road show" that is a "written communication" within the meaning of Rule 433(d)(8)(i) whether or not required to be filed with the Commission, or (3) is exempt from filing pursuant to Rule 433(d)(5) (i) because it contains a description of the Placement Shares or of the offering that does not reflect the final terms, in each case in the form filed or required to be filed with the Commission or, if not required to be filed, in the form retained in the Company's records pursuant to Rule 433(g) under the Securities Act.

"<u>Representative</u>" shall mean either the Company's or the Agent's (as applicable) directors, officers, employees, members, consultants, affiliates, and agents, and those of such party's affiliates.

"Rule 172," "Rule 405," "Rule 415," "Rule 424," "Rule 424(b)," "Rule 430B," and "Rule 433" refer to such rules under the Securities Act.

All references in this Agreement to financial statements and schedules and other information that is "contained," "included" or "stated" in the Registration Statement or the Prospectus (and all other references of like import) shall be deemed to mean and include all such financial statements and schedules and other information that is incorporated by reference in the Registration Statement or the Prospectus, as the case may be.

All references in this Agreement to the Registration Statement, the Prospectus or any amendment or supplement to any of the foregoing shall be deemed to include the copy filed with the Commission pursuant to EDGAR; all references in this Agreement to any Issuer Free Writing Prospectuses that, pursuant to Rule 433, are not required to be filed with the Commission) shall be deemed to include the copy thereof filed with the Commission pursuant to EDGAR; and all references in this Agreement to "supplements" to the Prospectus shall include, without limitation, any supplements, "wrappers" or similar materials prepared in connection with any offering, sale or private placement of any Placement Shares by the Agent outside of the United States.

[Remainder of the page intentionally left blank]

If the foregoing correctly sets forth the understanding between the Company and the Agent, please so indicate in the space provided below for that purpose, whereupon this letter shall constitute a binding agreement between the Company and the Agent.

Very truly yours,

# LUMINAR TECHNOLOGIES, INC.

By: /s/ Thomas J. Fennimore

Name: Thomas J. Fennimore Title: Chief Financial Officer

# ACCEPTED as of the date first-above written:

# VIRTU AMERICAS LLC

By: /s/ Joshua R. Feldman

Name: Joshua R. Feldman Title: Managing Director

# FORM OF PLACEMENT NOTICE

From: Luminar Technologies, Inc.

To: Virtu Americas LLC

Attention: Virtu Capital Markets

Subject: Equity Financing -- Placement Notice

# Ladies and Gentlemen:

Pursuant to the terms and subject to the conditions contained in the Financing Agreement between Luminar Technologies, Inc., a Delaware corporation (the "<u>Company</u>"), and Virtu Americas LLC (the "<u>Agent</u>"), dated February 28, 2023, the Company hereby requests that the Agent sell up to [\_\_\_] of the Company's Class A common stock, par value \$0.0001 per share (the "Shares"), at a minimum market price of \$ per Share, during the time period beginning [month, day, time] and ending [month, day, time].

[In addition, the following limitation applies to sales of Shares on any single day during the period specified above: [INSERT LIMITATION, IF ANY].]

# **SCHEDULE 2**

# Compensation

The Company shall pay to the Agent in cash, upon each sale of Placement Shares pursuant to this Agreement, an amount equal to up to 2.0% of the gross proceeds from each sale of Placement Shares.

# **SCHEDULE 3**

# **Notice Parties**

<u>The Company</u> Austin Russell\* Chief Executive Officer (\*Does not receive notices)

Thomas J. Fennimore Chief Financial Officer

The Agent

Jeffrey Lumby

Joshua Feldman

Conor Lumby

With a copy to atm@virtu.com

# EXHIBIT 7(1) Form of Representation Date Certificate

This Representation Date Certificate (this "<u>Certificate</u>") is executed and delivered in connection with <u>Section 7(1)</u> of the Financing Agreement (the "<u>Agreement</u>"), dated February 28, 2023, and entered into between Luminar Technologies, Inc. (the "<u>Company</u>") and Virtu Americas LLC. All capitalized terms used but not defined herein shall have the meanings given to such terms in the Agreement.

The Company hereby certifies as follows:

1. As of the date of this Certificate (i) the Registration Statement does not contain any untrue statement of a material fact or omit to state a material fact required to be stated therein or necessary in order to make the statements therein not misleading and (ii) neither the Registration Statement nor the Prospectus contain any untrue statement of a material fact or omit to state a material fact required to be stated therein, in light of the circumstances under which they were made, not misleading and (iii) no event has occurred as a result of which it is necessary to amend or supplement the Prospectus in order to make the statements therein not untrue or misleading for this paragraph 1 to be true.

2. Each of the representations and warranties of the Company contained in the Agreement were, when originally made, and are, as of the date of this Certificate, true and correct in all material respects.

3. Except as waived by the Agent in writing, each of the covenants required to be performed by the Company in the Agreement on or prior to the date of the Agreement, this Representation Date, and each such other date prior to the date hereof as set forth in the Agreement, has been duly, timely and fully performed in all material respects and each condition required to be complied with by the Company on or prior to the date of the Agreement, this Representation Date, and each such other date prior to the date hereof as set forth in the Agreement has been duly, timely and fully complied with in all material respects.

4. Subsequent to the date of the most recent financial statements in the Prospectus, and except as described in the Prospectus, including Incorporated Documents, there has been no Material Adverse Effect.

5. No stop order suspending the effectiveness of the Registration Statement or of any part thereof has been issued, and no proceedings for that purpose have been instituted or are pending or threatened by any securities or other governmental authority (including, without limitation, the Commission).

6. No order suspending the effectiveness of the Registration Statement or the qualification or registration of the Placement Shares under the securities or Blue Sky laws of any

jurisdiction are in effect and no proceeding for such purpose is pending before, or threatened, to the Company's knowledge or in writing by, any securities or other governmental authority (including, without limitation, the Commission).

The undersigned has executed this Representation Date Certificate as of the date first written above.

# LUMINAR TECHNOLOGIES, INC.

By:

Name:\_\_\_\_\_\_ Title: \_\_\_\_\_

# EXHIBIT 23

# Permitted Issuer Free Writing Prospectuses

None.

#### LUMINAR TECHNOLOGIES, INC. AMENDED AND RESTATED 2020 EQUITY INCENTIVE PLAN

1. <u>Purposes of the Plan</u>. The purposes of this Plan are (a) to attract and retain the best available personnel to ensure the Company's success and accomplish the Company's goals; (b) to incentivize Employees, Directors and Independent Contractors with long-term equity-based compensation to align their interests with the Company's stockholders, and (c) to promote the success of the Company's business. This Plan, as amended and restated, was approved by the Board on May 5, 2022 and approved by the stockholders of the Company on \_\_\_\_\_.

The Plan permits the grant of Incentive Stock Options, Nonstatutory Stock Options, Restricted Stock, Restricted Stock Units, Stock Appreciation Rights, Performance Units and Performance Shares.

2. Definitions. As used herein, the following definitions will apply:

(a) "Administrator" means the Board or any of its Committees as will be administering the Plan, in accordance with Section 4 of the Plan.

(b) "<u>Affiliate</u>" means (i) an entity other than a Subsidiary which, together with the Company, is under common control of a third person or entity and (ii) an entity other than a Subsidiary in which the Company and/or one or more Subsidiaries own a controlling interest.

(c) "<u>Applicable Laws</u>" means all applicable laws, rules, regulations and requirements, including, but not limited to, all applicable U.S. federal or state laws, rules and regulations, the rules and regulations of any stock exchange or quotation system on which the Common Stock is listed or quoted, and the applicable laws, rules and regulations of any other country or jurisdiction where Awards are, or will be, granted under the Plan or Participants reside or provide services to the Company or any Parent or Subsidiary of the Company, as such laws, rules, and regulations shall be in effect from time to time.

(d) "Award" means, individually or collectively, a grant under the Plan of Options, Stock Appreciation Rights, Restricted Stock, Restricted Stock Units, Performance Units or Performance Shares.

(e) "Award Agreement" means the written or electronic agreement setting forth the terms and provisions applicable to each Award granted under the Plan. The Award Agreement is subject to the terms and conditions of the Plan.

(f) "**Board**" means the Board of Directors of the Company.

(g) "Cause" means, with respect to the termination of a Participant's status as a Service Provider, except as otherwise defined in an Award Agreement, (i) in the case where there is no employment agreement, consulting agreement, change in control agreement or similar agreement in effect between the Company or an Affiliate of the Company and the Participant at the time of the grant of the Award (or where there is such an agreement but it does not define "cause" (or words of like import) or where it only applies upon the occurrence of a change in control and one has not yet taken place): (A) any material breach by Participant of any material written agreement between Participant and the Company; (B) any failure by Participant to comply with the Company's material written policies or rules as they may be in effect from time to time; (C) neglect or persistent unsatisfactory performance of Participant's duties; (D) Participant's repeated failure to follow reasonable and lawful instructions from the Board or Chief Executive Officer; (E) Participant's indictment for, conviction of, or plea of guilty or nolo contendre to, any felony or crime that results in, or is reasonably expected to result in, a material adverse effect on the business or reputation of the Company; (F) Participant's commission of or participant's unauthorized use or disclosure of any proprietary information or trade secrets of the Company or any other party to whom the Participant owes an obligation of nondisclosure as a result of his or her relationship with the Company; or (ii) in the case where there is an employment agreement, consulting agreement, change in control agreement in effect between the Company or an Affiliate and the Participant at the time of the grant of the disclosure of single under such agreement; provided,

however, that with regard to any agreement under which the definition of "cause" only applies on occurrence of a change in control, such definition of "cause" shall not apply until a change in control actually takes place and then only with regard to a termination thereafter. For purposes of clarity, a termination without "Cause" does not include any termination that occurs solely as a result of Participant's death or Disability. The determination as to whether a Participant's status as a Service Provider for purposes of the Plan has been terminated for Cause shall be made in good faith by the Company and shall be final and binding on the Participant. The foregoing definition does not in any way limit the Company's ability (or that of any Parent or Subsidiary or any successor thereto, as appropriate) to terminate a Participant's employment or consulting relationship at any time, subject to Applicable Laws.

(h) "Change in Control," except as may otherwise be provided in an Award Agreement or other applicable agreement, means the occurrence of any of the following:

(i) The consummation of a merger or consolidation of the Company with or into another entity or any other corporate reorganization, if the Company's stockholders immediately prior to such merger, consolidation or reorganization cease to directly or indirectly own immediately after such merger, consolidation or reorganization at least a majority of the combined voting power of the continuing or surviving entity's securities outstanding immediately after such merger, consolidation or reorganization;

(ii) The consummation of the sale, transfer or other disposition of all or substantially all of the Company's assets (other than (x) to a corporation or other entity of which at least a majority of its combined voting power is owned directly or indirectly by the Company, (y) to a corporation or other entity owned directly or indirectly by the shareholders of the Company in substantially the same proportions as their ownership of Common Stock or (z) to a continuing or surviving entity described in Section 2(h)(i) in connection with a merger, consolidation or reorganization which does not result in a Change in Control under Section 2(h)(i));

(iii) A change in the effective control of the Company which occurs on the date that a majority of members of the Board is replaced during any twelve (12) month period by Directors whose appointment or election is not endorsed by a majority of the members of the Board prior to the date of the appointment or election; or

(iv) The consummation of any transaction as a result of which any Person becomes the "beneficial owner" (as defined in Rule 13d-3 under the Exchange Act), directly or indirectly, of securities of the Company representing at least fifty percent (50%) of the total voting power represented by the Company's then outstanding voting securities. For purposes of this Section 2(h), the term "Person" shall have the same meaning as when used in Sections 13(d) and 14(d) of the Exchange Act but shall exclude: (1) a trustee or other fiduciary holding securities under an employee benefit plan of the Company or an affiliate of the

Company;

(2) a corporation or other entity owned directly or indirectly by the stockholders of the Company in substantially the same proportions as their ownership of Common Stock;

(3) the Company; and

Company.

(4) a corporation or other entity of which at least a majority of its combined voting power is owned directly or indirectly by the

A transaction shall not constitute a Change in Control if its sole purpose is to change the state of the Company's incorporation or to create a holding company that will be owned in substantially the same proportions by the persons who held the Company's securities immediately before such transactions. In addition, if any Person (as defined above) is considered to be in effective control of the Company, the acquisition of additional control of the Company by the same Person will not be considered to cause a Change in Control. If required for compliance with Code Section 409A, in no event will a Change in Control be deemed to have occurred if such transaction is not also a "change in the ownership or effective control of" the Company or "a change in the ownership of a substantial portion of the assets of" the Company as determined under Treasury Regulation Section 1.409A-3(i)(5) (without regard to any alternative definition thereunder).

(i) "<u>Code</u>" means the Internal Revenue Code of 1986, as amended. Reference to a specific section of the Code or regulation thereunder shall include such section or regulation, any valid regulation promulgated under such section, and any comparable provision of any future legislation or regulation amending, supplementing or superseding such section or regulation.

(j) "Code Section 409A" means Code Section 409A, as amended from time to time, including the guidance and regulations promulgated thereunder and successor provisions, guidance and regulations thereto.

(k) "Committee" means a committee of Directors or of other individuals satisfying Applicable Laws appointed by the Board in accordance with Section 4 hereof.

(I) "<u>Common Stock</u>" means the Class A common stock of the Company.

(m) "Company" means Luminar Technologies, Inc., a Delaware corporation, or any successor thereto.

(n) "Director" means a member of the Board.

(o) "Disability" means total and permanent disability as defined in Section 22(e)(3) of the Code, provided that in the case of Awards other than Incentive Stock Options, the Administrator in its discretion may determine whether a permanent and total disability exists in accordance with uniform and nondiscriminatory standards adopted by the Administrator from time to time.

(p) "Effective Date" means December 2, 2020.

(q) "Employee" means any person, including Officers and Directors, employed by the Company or any Parent or Subsidiary of the Company. Neither service as a Director nor payment of a director's fee by the Company will be sufficient to constitute "employment" by the Company.

(r) "Exchange Act" means the Securities Exchange Act of 1934, as amended.

(s) "Exchange Program" means a program under which outstanding Awards are amended to provide for a lower exercise price or surrendered or cancelled in exchange for (i) Awards with a lower exercise price, (ii) a different type of Award or awards under a different equity incentive plan, (iii) cash, or (iv) a combination of (i), (ii) and/or (iii). Notwithstanding the preceding, the term Exchange Program does not include (A) any action described in Section 14 or any action taken in connection with a Change in Control transaction nor (B) any transfer or other disposition permitted under Section 13. For the purpose of clarity, each of the actions described in the prior sentence, none of which constitute an Exchange Program, may be undertaken (or authorized) by the Administrator in its sole discretion without approval by the Company's stockholders.

(t) "Fair Market Value" means, as of any date, the value of Common Stock determined as follows:

(i) If the Common Stock is listed on any established stock exchange or a national market system, its Fair Market Value will be the closing sales price for such stock as quoted on such exchange or system on the day of determination, as reported in such source as the Administrator deems reliable (or the closing price on the most recent prior trading day, if no sales were reported on the day of determination);

(ii) If the Common Stock is regularly quoted by a recognized securities dealer but selling prices are not reported, the Fair Market Value of a Share will be the mean between the high bid and low asked prices for the Common Stock on the day of determination, as reported in such source as the Administrator deems reliable; or

(iii) In the absence of an established market for the Common Stock, the Fair Market Value will be determined in good faith by the Administrator in compliance with Applicable Laws and regulations and in a manner that complies with Code Section 409A.

(u) "Fiscal Year" means the fiscal year of the Company.

(v) "Incentive Stock Option" means an Option that by its terms qualifies and is intended to qualify as an incentive stock option within the meaning of Section 422 of the Code and the regulations promulgated thereunder.

(w) "Independent Contractor" means any person, including an advisor, consultant or agent, engaged by the Company or a Parent or Subsidiary to render services to such entity or who

renders, or has rendered, services to the Company, or any Parent, Subsidiary or Affiliate and is compensated for such services, in each case, other than an Employee.

(x) "Inside Director" means a Director who is an Employee.

(y) "Nonstatutory Stock Option" means an Option that by its terms does not qualify or is not intended to qualify as an Incentive Stock Option. (z) "Officer" means a person who is an officer of the Company within the meaning of Section 16 of the Exchange Act and the rules and

regulations promulgated thereunder.

(aa) "Option" means a stock option granted pursuant to the Plan.

(bb) "Outside Director" means a Director who is not an Employee.

(cc) "Parent" means any corporation (other than the Company) in an unbroken chain of corporations ending with the Company if each of the corporations other than the Company owns stock possessing fifty percent (50%) or more of the total combined voting power of all classes of stock in one of the other corporations in such chain. A corporation that attains the status of a Parent on a date after the adoption of the Plan shall be considered a Parent commencing as of such date.

(dd) "Participant" means the holder of an outstanding Award.

(ee) "Performance Goal" means a formula or standard determined by the Administrator with respect to each Performance Period based on one or more of the following criteria and any adjustment(s) thereto established by the Administrator: (1) sales or non-sales revenue; (2) return on revenues; (3) operating income; (4) income or earnings including operating income; (5) income or earnings before or after taxes, interest, depreciation and/or amortization; (6) income or earnings from continuing operations; (7) net income; (8) pre-tax income or after-tax income; (9) net income excluding amortization of intangible assets, depreciation and impairment of goodwill and intangible assets and/or excluding charges attributable to the adoption of new accounting pronouncements; (10) raising of financing or fundraising; (11) project financing; (12) revenue backlog; (13) gross margin; (14) operating margin or profit margin; (15) capital expenditures, cost targets, reductions and savings and expense management; (16) return on assets (gross or net), return on investment, return on capital, or return on stockholder equity; (17) cash flow, free cash flow, cash flow return on investment (discounted or otherwise), net cash provided by operations, or cash flow in excess of cost of capital; (18) performance warranty and/or guarantee claims; (19) stock price or total stockholder return; (20) earnings or book value per share (basic or diluted); (21) economic value created; (22) pre-tax profit or after-tax profit; (23) strategic business criteria, consisting of one or more objectives based on meeting specified market penetration or market share, completion of strategic agreements such as licenses, joint ventures, acquisitions, and the like, geographic business expansion, objective customer satisfaction or information technology goals, intellectual property asset metrics; (24) objective goals relating to divestitures, joint ventures, mergers, acquisitions and similar transactions; (25) objective goals relating to staff management, results from staff attitude and/or opinion surveys, staff satisfaction scores, staff safety, staff accident and/or injury rates, compliance, headcount, performance management, completion of critical staff training initiatives; (26) objective goals relating to projects, including project completion, timing and/or achievement of milestones, project budget, technical progress against work plans; and (27) enterprise resource planning. Awards issued to Participants may take into account other criteria (including subjective criteria). Performance Goals may differ from Participant to Participant. Performance Period to Performance Period and from Award to Award. Any criteria used may be measured, as applicable, (i) in absolute terms, (ii) in relative terms (including, but not limited to, any increase (or decrease) over the passage of time and/or any measurement against other companies or financial or business or stock index metrics particular to the Company), (iii) on a per share and/or share per capita basis, (iv) against the performance of the Company as a whole or against any affiliate(s), or a particular segment(s), a business unit(s) or a product(s) of the Company or individual project company, (v) on a pre-tax or after-tax basis, and/or (vi) using an actual foreign exchange rate or on a foreign exchange neutral basis

(ff) "Performance Period" means the time period during which the Performance Goals or other vesting provisions must be satisfied for Performance Shares or Performance Units.

(gg) "Performance Share" means an Award denominated in Shares which may be earned in whole or in part upon attainment of Performance Goals or other vesting criteria as the Administrator may determine pursuant to Section 10.

(hh) "Performance Unit" means an Award which may be earned in whole or in part upon attainment of Performance Goals or other vesting criteria as the Administrator may determine and which may be settled for cash, Shares or other securities or a combination of the foregoing pursuant to Section 10.

(ii) "Period of Restriction" means the period during which the transfer of Shares of Restricted Stock are subject to restrictions and therefore, the Shares are subject to a substantial risk of forfeiture. Such restrictions may be based on the passage of time, the achievement of target levels of performance, or the occurrence of other events as determined by the Administrator.

(jj) "Plan" means this Amended and Restated 2020 Equity Incentive Plan.

(kk) "Restricted Stock" means Shares issued pursuant to a Restricted Stock award under Section 7 of the Plan.

(II) "Restricted Stock Unit" means a bookkeeping entry representing an amount equal to the Fair Market Value of one Share, granted pursuant to Section 8. Each Restricted Stock Unit represents an unfunded and unsecured obligation of the Company.

(mm) "Rule 16b-3" means Rule 16b-3 of the Exchange Act or any successor to Rule 16b-3, as in effect when discretion is being exercised with respect to the Plan.

(nn) "Section 16(b)" means Section 16(b) of the Exchange Act.

(oo) "Service Provider" means an Employee, Director or Independent Contractor.

(pp) "Share" means a share of the Common Stock, as adjusted in accordance with Section 14 of the Plan.

(qq) "Stock Appreciation Right" means an Award, granted alone or in connection with an Option, that pursuant to Section 9 is designated as a Stock Appreciation Right.

(rr) "Subsidiary" means any corporation (other than the Company) in an unbroken chain of corporations beginning with the Company if each of the corporations other than the last corporation in the unbroken chain owns stock possessing fifty percent (50%) or more of the total combined voting power of all classes of stock in one of the other corporations in such chain. A corporation that attains the status of a Subsidiary on a date after the adoption of the Plan shall be considered a Subsidiary commencing as of such date.

(ss) "Tax-Related Items" means income tax, social insurance or other social contributions, national insurance, social security, payroll tax, fringe benefits tax, payment on account or other tax-related items.

3. Stock Subject to the Plan.

(a) <u>Stock Subject to the Plan</u>. Subject to the provisions of Section 14 of the Plan, the maximum aggregate number of Shares that may be issued under the Plan shall be 72,588,278 Shares. The Shares may be authorized, but unissued, or reacquired Common Stock. Notwithstanding the foregoing, subject to the provisions of Section 14 below, in no event shall the maximum aggregate number of Shares that may be issued under the Plan pursuant to Incentive Stock Options exceed the number set forth in this Section 3(a) plus, to the extent allowable under Section 422 of the Code and the regulations promulgated thereunder, any Shares that again become available for issuance pursuant to Sections 3(b) and 3(c).

(b) <u>Automatic Share Reserve Increase</u>. The number of Shares available for issuance under the Plan will be increased on the first day of each Fiscal Year beginning with the 2023 Fiscal Year and ending on (and including) the first day of the 2030 Fiscal Year, in an amount equal to the lesser of (i) 5% of the outstanding shares of Company common stock on the last day of the immediately preceding Fiscal Year, (ii) 40,000,000 Shares or (iii) such number of Shares determined by the Board.

(c) <u>Lapsed Awards</u>. To the extent an Award should expire or be forfeited or become unexercisable for any reason without having been exercised in full, the unissued Shares that were subject thereto shall, unless the Plan shall have been terminated, continue to be available under the Plan for

issuance pursuant to future Awards. Shares issued under the Plan and later forfeited to the Company due to the failure to vest or repurchased by the Company at the original purchase price paid to the Company for the Shares (including, without limitation, upon forfeiture to or repurchase by the Company in connection with a Participant ceasing to be a Service Provider) shall again be available for future grant under the Plan. Notwithstanding anything to the contrary contained herein, the following Shares shall not be added to the Shares authorized for grant under Section 3(a) and shall not be available for future grants of Awards: (i) Shares tendered by a Participant or withheld by the Company in payment of the exercise price of an Option;

(ii) Shares tendered by a Participant or withheld by the Company to satisfy any tax withholding obligation with respect to an Award; (iii) Shares subject to a Stock Appreciation Right that are not issued in connection with the stock settlement of the Stock Appreciation Right on exercise thereof; and (iv) Shares purchased on the open market with the cash proceeds from the exercise of Options.

# 4. Administration of the Plan.

(a) <u>Procedure</u>.

(i) <u>Multiple Administrative Bodies</u>. Different Committees with respect to different groups of Service Providers may administer the Plan, as may be determined from time to time by the Board.

(ii) <u>Rule 16b-3</u>. To the extent determined desirable by the Board to qualify transactions hereunder as exempt under Rule 16b-3, the transactions contemplated hereunder will be structured to satisfy the requirements for exemption under Rule 16b-3.

(iii) <u>Other Administration</u>. Other than as provided above, the Plan will be administered by the Board or, to the extent determined by the Board, a Committee, which committee will be constituted to satisfy Applicable Laws.

(b) Powers of the Administrator. Subject to the provisions of the Plan, the Administrator will have the authority, in its discretion:

(i) to determine the Fair Market Value in accordance with Section 2(c);

(ii) to select the Service Providers to whom Awards may be granted hereunder;

(iii) to determine the number of Shares to be covered by each Award granted hereunder;

(iv) to approve forms of Award Agreements for use under the Plan;

(v) to determine the terms and conditions, not inconsistent with the terms of the Plan, of any Award granted hereunder; such terms and conditions include, but are not limited to, the exercise price, the time or times when Awards may be exercised (which may be based on performance criteria), any vesting acceleration or waiver of forfeiture restrictions, and any restriction or limitation regarding any Award or the Shares relating thereto, based in each case on such factors as the Administrator will determine;

(vi) to institute and determine the terms and conditions of an Exchange Program; provided, however, that the Administrator shall not implement an Exchange Program without the approval of the holders of a majority of the Shares that are present in person or by proxy and entitled to vote at any annual or special meeting of Company's stockholders;

(vii) to construe and interpret the terms of the Plan and Awards granted pursuant to the Plan;

(viii) to prescribe, amend and rescind rules and regulations relating to the Plan, including rules and regulations established for the purpose of satisfying applicable non-U.S. laws, for qualifying for favorable tax treatment under applicable non-U.S. laws or facilitating compliance with non-U.S. laws (sub-plans may be created for any of these purposes);

(ix) to modify or amend each Award (subject to Section 21 of the Plan), including but not limited to the discretionary authority to extend the post-termination exercisability period of Awards, to accelerate vesting and to extend the maximum term of an Option (subject to Section 6(b) of the Plan regarding Incentive Stock Options);

(x) to allow Participants to satisfy tax withholding obligations in such manner as prescribed in Section 15 of the Plan;

(xi) to authorize any person to execute on behalf of the Company any instrument required to effect the grant of an Award previously granted by the Administrator;

(xii) to allow a Participant to defer the receipt of the payment of cash or the delivery of Shares that would otherwise be due to such Participant under an Award; and

(xiii) to make all other determinations deemed necessary or advisable for administering the Plan.

(c) <u>Effect of Administrator's Decision</u>. The Administrator's decisions, determinations and interpretations will be final and binding on all Participants and any other holders of Awards.

(d) **Delegation by the Administrator**. To the extent permitted by Applicable Laws, the Administrator, in its sole discretion and on such terms and conditions as it may provide, may delegate all or any part of its authority and powers under the Plan to one or more Directors or officers of the Company.

5. <u>Award Eligibility</u>. Nonstatutory Stock Options, Stock Appreciation Rights, Restricted Stock, Restricted Stock Units, Performance Shares and Performance Units may be granted to Service Providers. Incentive Stock Options may be granted only to Employees.

6. Stock Options.

(a) Limitations. Each Option will be designated in the Award Agreement as either an Incentive Stock Option or a Nonstatutory Stock Option. However, notwithstanding such designation, to the extent that the aggregate Fair Market Value of the Shares with respect to which Incentive Stock Options are exercisable for the first time by the Participant during any calendar year (under all plans of the Company and any Parent or Subsidiary) exceeds one hundred thousand dollars (\$100,000), such Options will be treated as Nonstatutory Stock Options. For purposes of this Section 6(a), Incentive Stock Options will be taken into account in the order in which they were granted. The Fair Market Value of the Shares will be determined as of the date the Option with respect to such Shares is granted. With respect to the Committee's authority in Section 4(b)(ix), if, at the time of any such extension, the exercise price per Share of the Option is less than the Fair Market Value of a Share, the extension shall, unless otherwise determined by the Committee, be limited to the earlier of (1) the maximum term of the Option as set by its original terms, or (2) ten (10) years from the grant date. Unless otherwise determined by the Committee, any extension of the term of an Option pursuant to Section 4(b)(ix) shall comply with Code Section 409A to the extent necessary to avoid taxation thereunder.

(b) <u>Term of Option</u>. The term of each Option will be stated in the Award Agreement. In the case of an Incentive Stock Option, the term will be ten (10) years from the date of grant or such shorter term as may be provided in the Award Agreement. Moreover, in the case of an Incentive Stock Option granted to a Participant who, at the time the Incentive Stock Option is granted, owns stock representing more than ten percent (10%) of the total combined voting power of all classes of stock of the Company or any Parent or Subsidiary, the term of the Incentive Stock Option will be five (5) years from the date of grant or such shorter term as may be provided in the Award Agreement.

# (c) Option Exercise Price and Consideration.

(i) <u>Exercise Price</u>. The per share exercise price for the Shares to be issued pursuant to exercise of an Option will be determined by the Administrator, subject to the following:

(1) In the case of an Incentive Stock Option

(A) granted to an Employee who, at the time the Incentive Stock Option is granted, owns stock representing more than ten percent (10%) of the voting power of all classes of stock of the Company or any Parent or Subsidiary, the per Share exercise price will be no less than one hundred ten percent (110%) of the Fair Market Value per Share on the date of grant.

(B) granted to any Employee other than an Employee described in paragraph (A) immediately above, the per Share exercise price will be no less than one hundred percent (100%) of the Fair Market Value per Share on the date of grant.

(2) In the case of a Nonstatutory Stock Option, the per Share exercise price will be no less than one hundred percent (100%) of the Fair Market Value per Share on the date of grant.

(3) Notwithstanding the foregoing, Options may be granted with a per Share exercise price of less than one hundred percent (100%) of the Fair Market Value per Share on the date of grant pursuant to a transaction described in, and in a manner consistent with, Section 424(a) of the Code.

(ii) <u>Waiting Period and Exercise Dates</u>. At the time an Option is granted, the Administrator will fix the period within which the Option may be exercised and will determine any conditions that must be satisfied before the Option may be exercised.

(iii) Form of Consideration. The Administrator will determine the acceptable form of consideration for exercising an Option, including the method of payment. In the case of an Incentive Stock Option, the Administrator will determine the acceptable form of consideration at the time of grant. Such consideration for both types of Options may consist entirely of: (1) cash; (2) check; (3) promissory note (to the extent permitted by Applicable Laws and the Administrator); (4) other Shares, provided that such Shares have a Fair Market Value on the date of surrender equal to the aggregate exercise price of the Shares as to which such Option will be exercised and provided that accepting such Shares will not result in any adverse accounting consequences to the Company, as the Administrator determines in its sole discretion; (5) consideration received by the Company under a broker-assisted (or other) cashless exercise program (whether through a broker or otherwise) implemented by the Company in connection with the Plan; (6) by net exercise; (7) such other payment.

#### (d) Exercise of Option.

(i) <u>Procedure for Exercise; Rights as a Stockholder</u>. Any Option granted hereunder will be exercisable according to the terms of the Plan and at such times and under such conditions as determined by the Administrator and set forth in the Award Agreement. An Option may not be exercised for a fraction of a Share.

An Option will be deemed exercised when the Company receives: (i) a notice of exercise (in such form as the Administrator may specify from time to time) from the person entitled to exercise the Option, and (ii) full payment for the Shares with respect to which the Option is exercised (together with full payment of any applicable taxes or other amounts required to be withheld or deducted with respect to the Option). Full payment may consist of any consideration and method of payment authorized by the Administrator and permitted by the Award Agreement and the Plan. Shares issued upon exercise of an Option will be issued in the name of the Participant or, if requested by the Participant, in the name of the Participant and his or her spouse. Until the Shares are issued (as evidenced by the appropriate entry on the books of the Company or of a duly authorized transfer agent of the Company), no right to vote or receive dividends or any other rights as a stockholder will exist with respect to the Shares subject to an Option, notwithstanding the exercise of the Option. The Company will issue (or cause to be issued) such Shares promptly after the Option is exercised. No adjustment will be made for a dividend or other right for which the record date is prior to the date the Shares are issued, except as provided in Section 14 of the Plan.

(ii) <u>Termination of Relationship as a Service Provider</u>. If a Participant ceases to be a Service Provider, other than upon the Participant's termination as the result of the Participant's death, Disability or Cause, the Participant may exercise his or her Option within such period of time as is specified in the Award Agreement to the extent that the Option is vested on the date of termination (but in no event later than the expiration of the term of such Option as set forth in the Award Agreement). In the absence of a specified time in the Award Agreement, the Option will remain exercisable for three (3) months following the Participant's termination. Unless otherwise provided by the Administrator, if on the date of termination the Participant is not vested as to his or her entire Option, the Shares covered by the unvested portion of the Option will revert to the Plan. If after termination the

Participant does not exercise his or her Option within the time specified by the Administrator, the Option will terminate, and the Shares covered by such Option will revert to the Plan.

(iii) <u>Disability of Participant</u>. If a Participant ceases to be a Service Provider as a result of the Participant's Disability, the Participant may exercise his or her Option within such period of time as is specified in the Award Agreement to the extent the Option is vested on the date of termination (but in no event later than the expiration of the term of such Option as set forth in the Award Agreement). In the absence of a specified time in the Award Agreement, the Option will remain exercisable for twelve (12) months following the Participant's termination as a result of the Participant's Disability. Unless otherwise provided by the Administrator, if on the date of termination the Participant is not vested as to his or her entire Option, the Shares covered by the unvested portion of the Option will revert to the Plan. If after termination the Participant does not exercise his or her Option within the time specified herein, the Option will terminate, and the Shares covered by such Option will revert to the Plan.

(iv) <u>Death of Participant</u>. If a Participant dies while a Service Provider, the Option may be exercised following the Participant's death within such period of time as is specified in the Award Agreement to the extent that the Option is vested on the date of death (but in no event may the Option be exercised later than the expiration of the term of such Option as set forth in the Award Agreement), by the Participant's designated beneficiary, provided such beneficiary has been designated prior to Participant's death in a form acceptable to the Administrator. If no such beneficiary has been designated by the personal representative of the Participant's estate or by the person(s) to whom the Option is transferred pursuant to the Participant's will or in accordance with the laws of descent and distribution. In the absence of a specified time in the Award Agreement, the Option will remain exercisable for twelve (12) months following the Participant's death. Unless otherwise provided by the Administrator, if on the date of termination the Participant is not vested as to his or her entire Option, the Shares covered by the unvested portion of the Option will revert to the Plan. If the Option is not so exercised within the time specified herein, the Option will terminate, and the Shares covered by such Option will revert to the Plan.

(v) <u>Termination for Cause</u>. If a Participant ceases to be a Service Provider as a result of being terminated for Cause, any outstanding Option (including any vested portion thereof) held by such Participant shall immediately terminate in its entirety upon the Participant being first notified of his or her termination for Cause and the Participant will be prohibited from exercising his or her Option from and after the date of such termination. All the Participant's rights under any Option, including the right to exercise the Option, may be suspended pending an investigation of whether Participant will be terminated for Cause.

#### 7. Restricted Stock.

(a) Grant of Restricted Stock. Subject to the terms and provisions of the Plan, the Administrator, at any time and from time to time, may grant Shares of Restricted Stock to Service Providers in such amounts as the Administrator, in its sole discretion, will determine.

(b) <u>Restricted Stock Agreement</u>. Each Award of Restricted Stock will be evidenced by an Award Agreement that will specify the Period of Restriction, the number of Shares granted, and such other terms and conditions as the Administrator, in its sole discretion, will determine. Unless the Administrator determines otherwise, the Company as escrow agent will hold Shares of Restricted Stock until the restrictions on such Shares have lapsed.

(c) <u>Transferability</u>. Except as provided in this Section 7 or the Award Agreement, Shares of Restricted Stock may not be sold, transferred, pledged, assigned, or otherwise alienated or hypothecated until the end of the applicable Period of Restriction.

(d) <u>Other Restrictions</u>. The Administrator, in its sole discretion, may impose such other restrictions on Shares of Restricted Stock as it may deem advisable or appropriate.

(e) <u>Removal of Restrictions</u>. Except as otherwise provided in this Section 7, Shares of Restricted Stock covered by each Restricted Stock grant made under the Plan will be released from escrow as soon as practicable after the last day of the Period of Restriction or at such other time as the

Administrator may determine. The Administrator, in its discretion, may accelerate the time at which any restrictions will lapse or be removed.

(f) <u>Voting Rights</u>. During the Period of Restriction, Service Providers holding Shares of Restricted Stock granted hereunder may exercise full voting rights with respect to those Shares, unless the Administrator determines otherwise.

(g) <u>Dividends and Other Distributions</u>. During the Period of Restriction, any dividends or distributions paid with respect to Shares of Restricted Stock will be subject to the same restrictions, including without limitation restrictions on transferability and forfeitability, as the Shares of Restricted Stock with respect to which they were paid.

(h) Return of Restricted Stock to Company. On the date set forth in the Award Agreement, the Restricted Stock for which restrictions have not lapsed will be cancelled and returned as unissued shares to the Company and again will become available for grant under the Plan.

### 8. Restricted Stock Units.

(a) <u>Grant</u>. Restricted Stock Units may be granted at any time and from time to time as determined by the Administrator. After the Administrator determines that it will grant Restricted Stock Units under the Plan, it will advise the Participant in an Award Agreement of the terms, conditions, and restrictions (if any) related to the grant, including the number of Restricted Stock Units.

(b) <u>Vesting Criteria and Other Terms</u>. The Administrator will set vesting criteria in its discretion, which, depending on the extent to which the criteria are met, will determine the number of Restricted Stock Units that will be paid out to the Participant. The Administrator may set vesting criteria based upon the achievement of Company-wide, business unit, or individual goals (including, but not limited to, continued employment), or any other basis (including the passage of time) determined by the Administrator in its discretion.

(c) <u>Earning Restricted Stock Units</u>. Upon meeting the applicable vesting criteria, the Participant will be entitled to receive a payout as determined by the Administrator. Notwithstanding the foregoing, at any time after the grant of Restricted Stock Units, the Administrator, in its sole discretion, may reduce or waive any vesting criteria that must be met to receive a payout.

(d) <u>Dividend Equivalents</u>. The Administrator may, in its sole discretion, award dividend equivalents in connection with the grant of Restricted Stock Units that may be settled in cash, in Shares of equivalent value, or in some combination thereof. Any such dividend equivalents awarded with respect to Restricted Stock Units will be subject to the same restrictions, including without limitation restrictions on transferability and forfeitability, as the Restricted Stock Units with respect to which they were paid.

(e) Form and Timing of Payment. Payment of earned Restricted Stock Units will be made upon the date(s) determined by the Administrator and set forth in the Award Agreement, which shall specify whether earned Restricted Stock Units may be settled in cash, Shares, or a combination of both.

(f) <u>Cancellation</u>. On the date set forth in the Award Agreement, all Shares underlying any unvested, unlapsed unearned Restricted Stock Units will be forfeited to the Company for future issuance.

# 9. Stock Appreciation Rights.

(a) Grant of Stock Appreciation Rights. Subject to the terms and conditions of the Plan, a Stock Appreciation Right may be granted to Service Providers at any time and from time to time as will be determined by the Administrator, in its sole discretion.

(b) <u>Number of Shares</u>. The Administrator will have complete discretion to determine the number of Stock Appreciation Rights granted to any Service Provider.

(c) <u>Exercise Price and Other Terms</u>. The per share exercise price for the Shares to be issued pursuant to exercise of a Stock Appreciation Right will be determined by the Administrator and will be no less than one hundred percent (100%) of the Fair Market Value per Share on the date of grant. Otherwise, the Administrator, subject to the provisions of the Plan, will have complete discretion to determine the terms and conditions of Stock Appreciation Rights granted under the Plan.

(d) <u>Stock Appreciation Right Agreement</u>. Each Stock Appreciation Right grant will be evidenced by an Award Agreement that will specify the exercise price, the term of the Stock Appreciation

Right, the conditions of exercise, and such other terms and conditions as the Administrator, in its sole discretion, will determine.

(e) Expiration of Stock Appreciation Rights. A Stock Appreciation Right granted under the Plan will expire upon the date determined by the Administrator, in its sole discretion, and set forth in the Award Agreement. Notwithstanding the foregoing, the rules of Section 6(b) relating to the maximum term and Section 6(d) relating to exercise also will apply to Stock Appreciation Rights.

(f) <u>Payment of Stock Appreciation Right Amount</u>. Upon exercise of a Stock Appreciation Right, a Participant will be entitled to receive payment from the Company in an amount determined by multiplying:

(i) The difference between the Fair Market Value of a Share on the date of exercise over the exercise price; times

(ii) The number of Shares with respect to which the Stock Appreciation Right is exercised.

At the discretion of the Administrator, the payment upon Stock Appreciation Right exercise may be in cash, in Shares of equivalent value, or in some combination thereof.

#### 10. Performance Units and Performance Shares.

(a) Grant of Performance Units/Shares. Performance Units and Performance Shares may be granted to Service Providers at any time and from time to time, as will be determined by the Administrator, in its sole discretion. The Administrator will have complete discretion in determining the number of Performance Units and Performance Shares granted to each Participant.

(b) <u>Value of Performance Units/Shares</u>. Each Performance Unit will have an initial value that is established by the Administrator on or before the date of grant. Each Performance Share will have an initial value equal to the Fair Market Value of a Share on the date of grant.

(c) <u>Performance Goals and Other Terms</u>. The Administrator will set Performance Goals or other vesting provisions (including, without limitation, continued status as a Service Provider) in its discretion which, depending on the extent to which they are met, will determine the number or value of Performance Units/Shares that will be paid out to the Service Providers. Each Award of Performance Units/Shares will be evidenced by an Award Agreement that will specify the Performance Period, and such other terms and conditions as the Administrator, in its sole discretion, will determine. Without limiting the foregoing, the Administrator shall adjust any Performance Goals or other feature of an Award that relates to or is wholly or partially based on the number of, or the value of, any stock of the Company, to reflect any stock dividend or split, repurchase, recapitalization, combination, or exchange of shares or other similar changes in such stock.

(d) <u>Earning of Performance Units/Shares</u>. After the applicable Performance Period has ended, the holder of Performance Units/Shares will be entitled to receive a payout of the number of Performance Units/Shares earned by the Participant over the Performance Period, to be determined as a function of the extent to which the corresponding Performance Goals or other vesting provisions have been achieved. After the grant of a Performance Unit/Share, the Administrator, in its sole discretion, may reduce or waive any Performance Goals or other vesting provisions for such Performance Unit/Share.

(e) Form and Timing of Payment of Performance Units/Shares. Payment of earned Performance Units/Shares will be made upon the time set forth in the applicable Award Agreement. The Administrator, in its sole discretion, may pay earned Performance Units/Shares in the form of cash, in Shares (which have an aggregate Fair Market Value equal to the value of the earned Performance Units/Shares at the close of the applicable Performance Period) or in a combination thereof.

(f) <u>Cancellation of Performance Units/Shares</u>. On the date set forth in the Award Agreement, all unearned or unvested Performance Units/Shares will be forfeited to the Company, and again will be available for grant under the Plan.

11. <u>Outside Director Limitations</u>. No Outside Director may receive Awards under the Plan with a total grant date fair value that, when combined with cash compensation received for service as an Outside Director, exceeds \$750,000 in a calendar year, increased to \$1,000,000 in the calendar year of

his or her initial services as an Outside Director. Grant date fair value for purposes of Awards to Outside Directors under the Plan will be determined as follows: (a) for Options and Stock Appreciation Rights, grant date fair value will be calculated using the Black-Scholes valuation methodology on the date of grant of such Option or Stock Appreciation Right and (b) for all other Awards other than Options and Stock Appreciation Rights, grant date fair value will be determined by either (i) calculating the product of the Fair Market Value per Share on the date of grant and the aggregate number of Shares subject to the Award or (ii) calculating the product using an average of the Fair Market Value over a number of trading days and the aggregate number of Shares subject to the Award. Awards granted to an individual while he or she was serving in the capacity as an Employee or while he or she was an Independent Contractor but not an Outside Director will not count for purposes of the limitations set forth in this Section 11.

12. Leaves of Absence/Transfer Between Locations. The Administrator shall have the discretion to determine at any time whether and to what extent the vesting of Awards shall be suspended during any leave of absence; provided, however, that in the absence of such determination, vesting of Awards shall continue during any paid leave and shall be suspended during any unpaid leave (unless otherwise required by Applicable Laws). A Participant will not cease to be an Employee in the case of (a) any leave of absence approved by the Participant's employer or (b) transfers between locations of the Company or between the Company, its Parent, or any Subsidiary. If an Employee is holding an Incentive Stock Option and such leave exceeds three (3) months then, for purposes of Incentive Stock Option status only, such Employee's service as an Employee shall be deemed terminated on the first (1st) day following such three (3) month period and the Incentive Stock Option shall thereafter automatically treated for tax purposes as a Nonstatutory Stock Option in accordance with Applicable Laws, unless reemployment upon the expiration of such leave is guaranteed by contract or statute, or unless provided otherwise pursuant to a written Company policy.

13. <u>Transferability of Awards</u>. Unless determined otherwise by the Administrator, an Award may not be sold, pledged, assigned, hypothecated, transferred, or disposed of in any manner other than by will or by the laws of descent or distribution and may be exercised, during the lifetime of the Participant, only by the Participant. If the Administrator makes an Award transferable, such Award will contain such additional terms and conditions as the Administrator deems appropriate.

#### 14. Adjustments; Dissolution or Liquidation; Merger or Change in Control.

(a) <u>Adjustments</u>. In the event of a stock split, reverse stock split, stock dividend, combination, consolidation, recapitalization (including a recapitalization through a large nonrecurring cash dividend) or reclassification of the Shares, subdivision of the Shares, a rights offering, a reorganization, merger, spin-off, split-up, repurchase, or exchange of Common Stock or other securities of the Company or other significant corporate transaction, or other change affecting the Common Stock occurs, the Administrator, in order to prevent dilution, diminution or enlargement of the benefits or potential benefits intended to be made available under the Plan, will, in such manner as it may deem equitable, adjust the number, kind and class of securities that may be delivered under the Plan and/or the number, class, kind and price of securities covered by each outstanding Award. Notwithstanding the forgoing, all adjustments under this Section 14 shall be made in a manner that does not result in taxation under Code Section 409A.

(b) <u>Dissolution or Liquidation</u>. In the event of the proposed winding up, dissolution or liquidation of the Company, the Administrator will notify each Participant as soon as practicable prior to the effective date of such proposed transaction. To the extent it has not been previously exercised or settled, an Award will terminate immediately prior to the consummation of such proposed action.

(c) <u>Change in Control</u>. In the event of a Change in Control, each outstanding Award (vested or unvested) will be treated as the Administrator determines, which determination may be made without the consent of any Participant and need not treat all outstanding Awards (or portion thereof) in an identical manner. Such determination, without the consent of any Participant, may provide (without limitation) for one or more of the following in the event of a Change in Control: (A) the continuation of such outstanding Awards by the Company (if the Company is the surviving corporation); (B) the assumption of such outstanding Awards by the surviving wards by the surviving corporation or its parent; (C) the substitution by the surviving

corporation or its parent of new options or other equity awards for such Awards; (D) the cancellation of such Awards in exchange for a payment to the Participants equal to the excess of (1) the Fair Market Value of the Shares subject to such Awards as of the closing date of such Change in Control over (2) the exercise price or purchase price paid or to be paid (if any) for the Shares subject to the Awards; provided that at the discretion of the Administrator, such payment may be subject to the same conditions that apply to the consideration that will be paid to holders of Shares in connection with the transaction; provided, however, that any payout in connection with a terminated award shall comply with Code Section 409A to the extent necessary to avoid taxation thereunder; or (E) the opportunity for Participants to exercise the Options prior to the occurrence of the Change in Control and the termination (for no consideration) upon the consummation of such Change in Control of any Options not exercised prior thereto. An Award may be subject to additional acceleration of vesting and exercisability upon or after a Change in Control as may be provided in the Award Agreement for such Award or as may be provided in any other written agreement between the Company or any Affiliate and the Participant.

15. <u>Tax</u>.

Award, or such other later date as is determined by

(a) <u>Withholding Requirements</u>. Prior to the delivery of any Shares or cash pursuant to an Award (or exercise thereof) or prior to any time the Award or Shares are subject to taxation or other Tax-Related Items, the Company and/or the Participant's employer will have the power and the right to deduct or withhold, or require a Participant to remit to the Company, an amount sufficient to satisfy any Tax-Related Items or other items that are required to be withheld or deducted or otherwise applicable with respect to such Award.

(b) <u>Withholding Arrangements</u>. The Administrator, in its sole discretion and pursuant to such procedures as it may specify from time to time, may permit a Participant to satisfy such withholding or deduction obligations or any other Tax-Related Items, in whole or in part by (without limitation) (i) paying cash, (ii) electing to have the Company withhold otherwise deliverable cash or Shares, or (iii) delivering to the Company already-owned Shares; provided that, unless specifically permitted by the Company, any proceeds derived from a cashless exercise must be an approved broker-assisted cashless exercise or the cash or Shares withheld or delivered must be limited to avoid financial accounting charges under applicable accounting guidance or Shares must have been previously held for the minimum duration required to avoid financial accounting charges under applicable accounting guidance. Except as otherwise determined by the Administrator, the Fair Market Value of the Shares to be withheld or delivered will be determined as of the date that the amounts are required to be withheld or deducted.

(c) <u>Compliance With Code Section 409A</u>. Awards will be designed and operated in such a manner that they are either exempt from the application of, or comply with, the requirements of Code Section 409A such that the grant, payment, settlement or deferral will not be subject to the additional tax or interest applicable under Code Section 409A. The Plan and each Award Agreement under the Plan is intended to meet the requirements of Code Section 409A (or an exemption therefrom) and will be construed and interpreted in accordance with such intent, except as otherwise determined in the sole discretion of the Administrator. To the extent that an Award or payment, or the settlement or deferral thereof, is subject to Code Section 409A that the grant, payment, settled or deferred in a manner that will meet the requirements of Code Section 409A (or an exemption therefrom), such that the grant, payment, settlement or deferral will not be subject to the additional tax or interest applicable under Code Section 409A. In no event will the Company be responsible for or reimburse a Participant for any taxes or other penalties incurred as a result of the application of Code Section 409A.

16. No Effect on Employment or Service. Neither the Plan nor any Award will confer upon a Participant any right with respect to continuing the Participant's relationship as a Service Provider with the Company or any Subsidiary or Affiliate, nor will they interfere in any way with the Participant's right or the Company's or any Subsidiary or Affiliate's right to terminate such relationship at any time, with or without cause, to the extent permitted by Applicable Laws. 17. Date of Grant. The date of grant of an Award will be, for all purposes, the date on which the Administrator makes the determination granting such

the Administrator. Notice of the determination will be provided to each Participant within a reasonable time after the date of such grant.

18. <u>Corporate Records Control</u>. In the event that the corporate records (e.g., Board consents, resolutions or minutes) documenting the corporate action constituting the grant contain terms (e.g., exercise price, vesting schedule or number of shares) that are inconsistent with those in the Award Agreement or related grant documents as a result of a clerical error in the papering of the Award Agreement or related grant documents, the corporate records will control and the Participant will have no legally binding right to the incorrect term in the Award Agreement or related grant documents.

19. <u>Clawback/Recovery</u>. All Awards granted under the Plan will be subject to recoupment in accordance with any clawback policy that the Company is required to adopt pursuant to the listing standards of any national securities exchange or association on which the Company's securities are listed or as is otherwise required by the U.S. Dodd-Frank Wall Street Reform and Consumer Protection Act or other Applicable Laws. In addition, the Board may impose such other clawback, recovery or recoupment provisions in an Award Agreement as the Board determines necessary or appropriate, including but not limited to a reacquisition right in respect of previously acquired Shares or other cash or property upon the occurrence of an event constituting Cause. No recovery of compensation under such a clawback policy will be an event giving rise to a right to resign for "good reason" or "constructive termination" (or similar term) under any agreement with the Company.

20. <u>Term of Plan</u>. Subject to Section 24 of the Plan, this Plan will become effective as of the Effective Date. The Plan will continue in effect for a term of ten (10) years measured from the earlier of the date the Board approves this Plan or the approval of this Plan by the Company's stockholders, unless terminated earlier under Section 21 of the Plan.

#### 21. Amendment and Termination of the Plan.

(a) Amendment and Termination. The Administrator may at any time amend, alter, suspend or terminate the Plan.

(b) <u>Stockholder Approval</u>. The Company will obtain stockholder approval of any Plan amendment to the extent necessary and desirable to comply with Applicable Laws.

(c) <u>Effect of Amendment or Termination</u>. No amendment, alteration, suspension or termination of the Plan will materially impair the rights of any Participant, unless mutually agreed otherwise between the Participant and the Administrator, which agreement must be in writing and signed by the Participant and the Company. Termination of the Plan will not affect the Administrator's ability to exercise the powers granted to it hereunder with respect to Awards granted under the Plan prior to the date of such termination.

#### 22. Conditions Upon Issuance of Shares.

(a) Legal Compliance. Shares will not be issued pursuant to the exercise or vesting (as applicable) of an Award unless the exercise or vesting of such Award and the issuance and delivery of such Shares will comply with Applicable Laws and will be further subject to the approval of counsel for the Company with respect to such compliance.

(b) <u>Investment Representations</u>. As a condition to the exercise of an Award, the Company may require the person exercising such Award to represent and warrant at the time of any such exercise that the Shares are being purchased only for investment and without any present intention to sell or distribute such Shares if, in the opinion of counsel for the Company, such a representation is required.

23. <u>Inability to Obtain Authority</u>. The inability of the Company to obtain authority from any regulatory body having jurisdiction, which authority is deemed by the Company's counsel to be necessary to the lawful issuance and sale of any Shares hereunder, will relieve the Company of any liability in respect of the failure to issue or sell such Shares as to which such requisite authority will not have been obtained.

24. <u>Stockholder Approval</u>. The Plan will be subject to approval by the stockholders of the Company within twelve (12) months after the date the Plan is adopted by the Board. Such stockholder approval will be obtained in the manner and to the degree required under Applicable Laws.

25. Governing Law. The Plan and all Awards hereunder shall be construed in accordance with and governed by the laws of the State of Delaware, but without regard to its conflict of law provisions.

# LUMINAR TECHNOLOGIES, INC.

# 2020 EQUITY INCENTIVE PLAN

### STOCK OPTION AWARD AGREEMENT

Unless otherwise defined herein, the terms defined in the Luminar Technologies, Inc. 2020 Equity Incentive Plan (the '*Plan*'') will have the same defined meanings in this Stock Option Award Agreement (the "*Award Agreement*").

# NOTICE OF STOCK OPTION GRANT

## **Participant Name:**

You have been granted an Option to purchase Class A Common Stock of Luminar Technologies, Inc. (the 'Company"), subject to the terms and conditions of the Plan and this Award Agreement, as follows:

Grant Number	
Date of Grant	
Vesting Commencement Date	
Exercise Price per Share	USD \$
Total Number of Shares	
Total Exercise Price	USD \$
Type of Option:	U.S. Incentive Stock Option
	Nonstatutory Stock Option
Term/Expiration Date:	
Vesting Schedule:	

Subject to Section 2 of this Award Agreement, this Option may be exercised, in whole or in part, in accordance with the following schedule:

## Termination Period:

This Option will be exercisable for three (3) months after Participant ceases to be a Service Provider, unless such termination is due to Participant's death, Disability or Cause. If Participant's relationship as a Service Provider is terminated as a result of the Service Provider's death or Disability, this Option will be exercisable for twelve (12) months after Participant ceases to be a Service Provider. If Participant's relationship as a Service Provider is terminated as a result of the Service Provider is terminated for Cause, this Option (including any vested portion thereof) shall immediately terminate in its entirety upon Participant being first notified such termination for Cause and Participant will be prohibited from exercising this Option from and after the date of such termination. Notwithstanding the foregoing, in no event may this Option be exercised after the Term/Expiration Date as provided above and may be subject to earlier termination as provided in Section 14 of the Plan.

By Participant's signature and the signature of the Company's representative below, or by Participant otherwise accepting or exercising this Option, Participant and the Company agree that this Option is granted under and governed by the terms and conditions of the Plan and this Award Agreement, including the Terms and Conditions of Stock Option Grant, attached hereto as Exhibit A, all of which are made a part of this document. Participant has reviewed the Plan and this Award Agreement in their entirety, has had an opportunity to obtain the advice of counsel prior to executing this Award Agreement and fully understands all provisions of the Plan and Award Agreement. Participant hereby agrees to accept as binding, conclusive and final all decisions or interpretations of the Administrator on any questions relating to the Plan and Award Agreement.

PARTICIPANT:

LUMINAR TECHNOLOGIES, INC.

Signature

By

Print Name

Title

## EXHIBIT A

## TERMS AND CONDITIONS OF STOCK OPTION GRANT

1. <u>Grant of Option</u>. The Company hereby grants to Participant named in the Notice of Stock Option Grant attached as Part I of this Award Agreement (the *Participant*") an option (the "*Option*") to purchase the number of Shares set forth in the Notice of Stock Option Grant, at the exercise price per Share set forth in the Notice of Stock Option Grant (the "*Exercise Price*"), subject to all of the terms and conditions set forth in the Notice of Stock Option Grant and in this Award Agreement and the Plan, which is incorporated herein by reference. Subject to Section 21 of the Plan, if there is a conflict between the terms and conditions of the Plan and the terms and conditions of this Award Agreement, the terms and conditions of the Plan will prevail.

If designated in the Notice of Stock Option Grant as an Incentive Stock Option ("**ISO**"), this Option is intended to qualify as an ISO to the maximum extent permitted under Section 422 of the U.S. Internal Revenue Code of 1986, as amended (the "*Code*"). However, if this Option is intended to be an ISO, to the extent that it exceeds the USD \$100,000 rule of Code Section 422(d) it will be treated as a Nonstatutory Stock Option ("*NSO*"). Further, if for any reason this Option (or portion thereof) will not qualify as an ISO, then, to the extent of such non- qualification, such Option (or portion thereof) shall be regarded as an NSO granted under the Plan. In no event will the Administrator, the Company or any Parent or Subsidiary or any of their respective employees or directors have any liability to Participant (or any other person) due to the failure of the Option to qualify for any reason as an ISO.

2. <u>Vesting Schedule</u>. Except as provided in Section 3, the Option awarded by this Award Agreement will vest in accordance with the vesting provisions set forth in the Notice of Stock Option Grant. Options scheduled to vest on a certain date or upon the occurrence of a certain condition will not vest in accordance with any of the provisions of this Award Agreement, unless Participant will have been continuously a Service Provider from the Date of Grant until the date such vesting occurs. Service Provider status for purposes of this Award will end on the day that Participant is no longer actively providing services as an Employee, Director, or Independent Contractor and will not be extended by any notice period or "garden leave" that may be required contractually or under any Applicable Laws. Notwithstanding the foregoing, the Administrator (or any delegate) shall have the sole and absolute discretion to determine when Participant is no longer providing active service for purposes of Service Provider status and participation in the Plan.

#### 3. Exercise of Option.

(a) <u>Right to Exercise</u>. This Option may be exercised only to the extent vested and only within the term set forth in the Notice of Stock Option Grant and may be exercised during such term only in accordance with the Plan and the terms of this Award Agreement.

(b) <u>Method of Exercise</u>. This Option is exercisable to the extent vested by delivery of an exercise notice, in the form attached as <u>Exhibit B</u> (the "*Exercise Notice*") or in a manner and pursuant to such procedures as the Administrator may determine, which will state the election to exercise the Option, the number of Shares in respect of which the Option is being exercised (the "*Exercise Shares*"), and such other representations and agreements as may be required by the Company pursuant to the provisions of the Plan. The Exercise Notice will be completed by Participant and delivered to the Company. The Exercise Notice will be accompanied by payment of the aggregate Exercise Price as to all Exercised Shares together with any Tax-Related Items (as defined below) required to be withheld, paid or provided pursuant to any Applicable Laws. This Option will be deemed to be exercised upon receipt by the Company of such fully executed Exercise Notice accompanied by such aggregate Exercise Price and any other requirements or restrictions that may be imposed by the Company to comply with Applicable Laws or facilitate administration of the Plan. Notwithstanding the above, Participant understands that the Applicable Laws of the country in which Participant is residing or working at the time of grant, vesting, and/or exercise of this Option (including any rules or regulations governing securities, foreign exchange, tax, labor or other matters) may restrict or prevent exercise of this Option, and neither the Company nor any Parent or Subsidiary assumes any liability in relation to this Option in such case.

4. <u>Method of Payment</u>. Payment of the aggregate Exercise Price will be by any of the following, or a combination thereof, at the election of Participant unless otherwise specified by the Company in its sole discretion:

(a) cash (U.S. dollars); or

(b) check (denominated in U.S. dollars); or

(c) consideration received by the Company under a formal cashless exercise program adopted by the Company in connection with the Plan; or

(d) if Participant is subject to Section 16 of the Exchange Act, Participant may direct the Company to withhold Shares to be issued upon exercise of the Option to pay the aggregate Exercise Price and any such disposition of Shares to the Company shall be exempt from Section 16(b) of the Exchange Act pursuant to Rule 16b-3(e).

Participant understands and agrees that, unless otherwise permitted by the Company, any cross-border remittance made to exercise this Option or transfer proceeds received upon the sale of Shares must be made through a locally authorized financial institution or registered foreign exchange agency and may require Participant to provide such entity with certain information regarding the transaction.

#### 5. Tax Obligations.

(a) Withholding Taxes. Regardless of any action the Company or Participant's employer (the 'Employer') takes with respect to any or all applicable national, local, or other tax or social contribution, withholding, required deductions, or other payments, if any, that arise upon the grant, vesting, or exercise of this Option, the holding or subsequent sale of Shares, and the receipt of dividends, if any, or otherwise in connection with this Option or the Shares ("Tax-Related Items"), Participant acknowledges and agrees that the ultimate liability for all Tax-Related Items legally due by Participant is and remains Participant's responsibility and may exceed any amount actually withheld by the Company or the Employer. Participant further acknowledges and agrees that Participant is solely responsible for filing all relevant documentation that may be required in relation to this Option or any Tax-Related Items (other than filings or documentation that is the specific obligation of the Company or a Parent, Subsidiary, or Employer pursuant to Applicable Laws) such as but not limited to personal income tax returns or reporting statements in relation to the grant, vesting or exercise of this Option, the holding of Shares or any bank or brokerage account, the subsequent sale of Shares, and the receipt of any dividends. Participant further acknowledges that the Company and the Employer (a) make no representations or undertakings regarding the treatment of any Tax-Related Items in connection with any aspect of the Option, including the grant, vesting, or exercise of the Option, the subsequent sale of Shares acquired under the Plan and the receipt of dividends, if any; and (b) does not commit to and is under no obligation to structure the terms of the Option or any aspect of the Option to reduce or eliminate Participant's liability for Tax-Related Items, or achieve any particular tax result. Participant also understands that Applicable Laws may require varying Share or Option valuation methods for purposes of calculating Tax-Related Items, and the Company assumes no responsibility or liability in relation to any such valuation or for any calculation or reporting of income or Tax-Related Items that may be required of Participant under Applicable Laws. Further, if Participant has become subject to tax in more than one jurisdiction between the Date of Grant and the date of any relevant taxable event, Participant acknowledges that the Company and/or the Employer (or former employer, as applicable) may be required to withhold or account for Tax-Related Items in more than one jurisdiction.

(b) <u>Satisfaction of Tax-Related Items</u>. As a condition to the grant, vesting and exercise of this Option and as set forth in Section 15 of the Plan, Participant hereby agrees to make adequate provision for the satisfaction of (and will indemnify the Company and any Parent or Subsidiary for) any Tax-Related Items. No payment will be made to Participant (or his or her estate or beneficiary) related to an Option, and no Shares will be issued pursuant to an Option, unless and until satisfactory arrangements (as determined by the Company) have been made by Participant with respect to the payment of any Tax-Related Items obligations of the Company and/or any Parent, Subsidiary, or Employer with respect to the grant, vesting or exercise of the Option. In this regard, Participant authorizes the Company and/or any Parent, Subsidiary, or Employer, or their respective agents, at their discretion, to

satisfy the obligations with regard to all Tax-Related Items by one or a combination of the following, in each case to the extent permitted by applicable law:

(i) withholding from Participant's wages or other cash compensation paid to Participant by the Company or the Employer; or

(ii) withholding from proceeds of the sale of Shares acquired upon exercise of the Option, either through a voluntary sale or through a mandatory sale arranged by the Company (on Participant's behalf pursuant to this authorization); or

(iii) withholding in Shares to be issued upon exercise of the Option.

Notwithstanding the foregoing, if Participant is subject to Section 16 of the Exchange Act, Participant may direct the Company to withhold Shares to be issued upon exercise of the Option to satisfy Participant's obligations with regard to all Tax-Related Items and any such disposition of Shares to the Company shall be exempt from Section 16(b) of the Exchange Act pursuant to Rule 16b-3(e).

If the obligation for Tax-Related Items is satisfied by withholding Shares, Participant is deemed to have been issued the full number of Shares purchased for tax purposes, notwithstanding that a number of Shares is held back solely for the purpose of paying the Tax-Related Items due as a result of Participant's participation in the Plan. Participant shall pay to the Company or a Parent, Subsidiary, or Employer any amount of Tax-Related Items that the Company may be required to withhold, pay or otherwise provide for as a result of Participant's participation in the Plan that cannot be satisfied by one or more of the means previously described in this Section 5. Participant acknowledges and agrees that the Company may refuse to honor the exercise and refuse to issue or deliver the Shares or the proceeds of the sale of Shares if Participant fails to comply with his or her obligations in connection with the Tax-Related Items.

(c) <u>Notice of Disqualifying Disposition of ISO Shares</u>. If the Option granted to Participant herein is an ISO, and if Participant sells or otherwise disposes of any of the Shares acquired pursuant to the ISO on or before the later of (i) the date two (2) years after the Date of Grant, or (ii) the date one (1) year after the date of exercise, Participant will immediately notify the Company in writing of such disposition.

(d) <u>Code Section 409A (Applicable Only to Participants Subject to U.S. Taxes</u>. Under Code Section 409A, an option that is granted with a per Share exercise price that is determined by the Internal Revenue Service (the "*IRS*") to be less than the Fair Market Value of a Share on the Date of Grant (a '*Discount Option*") may be considered "deferred compensation." A Discount Option may result in (i) income recognition by Participant prior to the exercise of the option, (ii) an additional twenty percent (20%) federal income tax, and (iii) potential penalty and interest charges. The Discount Option may also result in additional state income, penalty and interest charges to Participant. Participant acknowledges that the Company cannot and has not guaranteed that the IRS will agree that the per Share exercise price of this Option equals or exceeds the Fair Market Value of a Share on the Date of Grant in a later examination. Participant agrees that if the IRS determines that the Option was granted with a per Share exercise price that was less than the Fair Market Value of a Share on the Date of Grant, Participant will be solely responsible for Participant's costs related to such a determination.

6. <u>Rights as Stockholder</u>. Neither Participant nor any person claiming under or through Participant will have any of the rights or privileges of a stockholder of the Company in respect of any Shares unless and until such Shares will have been issued (as evidenced by the appropriate entry on the books of the Company or of a duly authorized transfer agent of the Company). After such issuance, Participant will have all the rights of a stockholder of the Company with respect to voting such Shares and receipt of dividends and distributions on such Shares, but prior to such issuance, Participant will not have any rights to dividends and/or distributions on such Shares.

7. <u>No Guarantee of Continued Service or Grants</u>. PARTICIPANT ACKNOWLEDGES AND AGREES THAT THE VESTING OF SHARES PURSUANT TO THE VESTING SCHEDULE HEREOF SHALL OCCUR ONLY BY CONTINUING AS A SERVICE PROVIDER AT THE WILL OF THE EMPLOYER OR CONTRACTING ENTITY (AS APPLICABLE) AND NOT THROUGH THE ACT OF BEING HIRED, BEING

GRANTED THE OPTION OR ACQUIRING SHARES HEREUNDER.PARTICIPANT FURTHER ACKNOWLEDGES AND AGREES THAT THIS AWARD AGREEMENT, THE TRANSACTIONS CONTEMPLATED HEREUNDER AND THE VESTING SCHEDULE SET FORTH HEREIN DO NOT CONSTITUTE AN EXPRESS OR IMPLIED PROMISE OF CONTINUED ENGAGEMENT AS A SERVICE PROVIDER FOR THE VESTING PERIOD, FOR ANY PERIOD, OR AT ALL, AND WILL NOT INTERFERE IN ANY WAY WITH PARTICIPANT'S RIGHT OR THE RIGHT OF THE EMPLOYER OR THE COMPANY, PARENT, OR SUBSIDIARY TO TERMINATE PARTICIPANT'S RELATIONSHIP AS A SERVICE PROVIDER AT ANY TIME, WITH OR WITHOUT CAUSE (SUBJECT TO APPLICABLE LOCAL LAWS).

8. Nature of Grant. In accepting the Option, Participant acknowledges, understands and agrees that:

(a) the Plan is established voluntarily by the Company, it is discretionary in nature and it may be modified, amended, suspended or terminated by the Company at any time;

(b) the grant of the Option is voluntary and occasional and does not create any contractual or other right to receive future grants of Options, or benefits in lieu of Options even if Options have been granted repeatedly in the past;

(c) all decisions with respect to future awards of Options, if any, will be at the sole discretion of the Company;

(d) Participant's participation in the Plan is voluntary;

(e) the Option and the Shares subject to the Option are extraordinary items that do not constitute regular compensation for services rendered to the Company or the Employer, and that are outside the scope of Participant's employment contract, if any;

(f) the Option and the Shares subject to the Option are not intended to replace any pension rights or compensation;

(g) the Option and the Shares subject to the Option are not part of normal or expected compensation or salary for any purposes, including, but not limited to, calculating any severance, resignation, termination, redundancy, dismissal, or end of service payments, bonuses, long-service awards, pension or retirement or welfare benefits or similar payments and in no event should be considered as compensation for, or relating in any way to, past services for the Company or the Employer, subject to Applicable Laws;

(h) the future value of the underlying Shares is unknown and cannot be predicted with certainty; further, if Participant exercises the Option and obtains Shares, the value of the Shares acquired upon exercise may increase or decrease in value, even below the Exercise Price;

(i) Participant also understands that neither the Company nor any affiliate is responsible for any foreign exchange fluctuation between local currency and the United States Dollar or the selection by the Company or any affiliate in its sole discretion of an applicable foreign currency exchange rate that may affect the value of the Option (or the calculation of income or Tax-Related Items thereunder);

(j) in consideration of the grant of the Option, no claim or entitlement to compensation or damages shall arise from forfeiture of the Option resulting from termination of employment by the Employer (for any reason whatsoever and whether or not in breach of Applicable Laws, including, without limitation, applicable local labor laws), and Participant irrevocably releases the Employer from any such claim that may arise; if, notwithstanding the foregoing, any such claim is found by a court of competent jurisdiction to have arisen, Participant shall be deemed irrevocably to have waived his or her entitlement to pursue such claim; and

(k) the Option and the benefits under the Plan, if any, will not without the Administrator's consent transfer to another company in the case of a merger, take-over or transfer of liability.

9. No Advice Regarding Grant. The Company is not providing any tax, legal or financial advice, nor is the Company making any recommendations regarding Participant's participation in the Plan, or Participant's acquisition

or sale of the underlying Shares. Participant is hereby advised to consult with his or her own personal tax, legal and financial advisors regarding Participant's participation in the Plan before taking any action related to the Plan.

10. Data Privacy. Participant hereby explicitly and unambiguously consents to the collection, use and transfer, in electronic or other form, of Participant's Personal Data (as described below) by and among, as applicable, the Company, any Parent, Subsidiary, or affiliate, or third parties as may be selected by the Company for the exclusive purpose of implementing, administering and managing Participant's participation in the Plan. Participant understands that refusal or withdrawal of consent will affect Participant's ability to participate in the Plan; without providing consent, Participant will not be able to participate in the Plan or realize benefits (if any) from the Option.

Participant understands that the Company and any Parent, Subsidiary, affiliate, or designated third parties may hold personal information about Participant, including, but not limited to, Participant's name, home address and telephone number, date of birth, social insurance number or other identification number, salary, nationality, job title, any shares of stock or directorships held in the Company or any Parent, Subsidiary, or affiliate, details of all Options or any other entitlement to Shares awarded, canceled, exercised, vested, unvested or outstanding in Participant's favor ("Personal Data"). Participant understands that Personal Data may be transferred to any Parent, Subsidiary, affiliate, or third parties assisting in the implementation, administration and management of the Plan, that these recipients may be located in the United States, Participant's country (if different than the United States), or elsewhere, and that the recipient's country may have different data privacy laws and protections than Participant's country. In particular, the Company may transfer Personal Data to the broker or stock plan administrator assisting with the Plan, to its legal counsel and tax/accounting advisor, and to the affiliate or entity that is Participant's employer and its payroll provider.

# Participant should also refer to any data privacy policy implemented by the Company (which will be available to Participant separately and may be updated from time to time) for more information regarding the collection, use, storage, and transfer of Participant's Personal Data.

11. Address for Notices. Any notice to be given to the Company under the terms of this Award Agreement will be addressed to the Company, in care of its Secretary at Luminar Technologies, Inc., 12601 Research Parkway, Orlando, FL 32826, or at such other address as the Company may hereafter designate in writing.

12. Non-Transferability of Option. This Option may not be transferred in any manner otherwise than by will or by the laws of descent or distribution and may be exercised during the lifetime of Participant only by Participant.

13. <u>Binding Agreement</u>. Subject to the limitation on the transferability of this Option contained herein, this Award Agreement will be binding upon and inure to the benefit of the heirs, legatees, legal representatives, successors and assigns of the parties hereto.

14. Additional Conditions to Issuance of Stock. If at any time the Company will determine, in its discretion, that the listing, registration, qualification or compliance of the Shares upon or with any securities exchange or under any Applicable Laws, the tax code and related regulations or the consent or approval of any governmental regulatory authority is necessary or desirable as a condition to the grant or vesting of the Option or purchase by, or issuance of Shares to, Participant (or his or her estate) hereunder, such purchase or issuance will not occur unless and until such listing, registration, qualification, compliance, consent or approval will have been completed, effected or obtained free of any conditions not acceptable to the Company. The Company will make all reasonable efforts to meet the requirements of any Applicable Laws. Assuming such compliance, for purposes of the Tax-Related Items, the Exercised Shares will be considered transferred to Participant on the date the Option is exercised with respect to such Exercised Shares or is not in compliance with any Applicable Laws.

15. Lock-Up Agreement. If so requested by the Company (or any successor thereof) or the underwriters in connection with any transaction pursuant to which the securities of the Company will be exchanged for securities of

the Company (or any successor or parent thereof), registered under the Securities Act of 1933, as amended, including, without limitation, through a transaction with a publiclylisted blank check company then registered under the Securities Act (a "*SPAC Transaction*"), Participant shall not sell, make any short sale of, loan, grant any option for the purchase of, or otherwise dispose of any securities of the Company (or any successor thereof) however or whenever acquired (except for those being registered) without the prior written consent of the Company or such underwriters, as the case may be, for 180 days from the effective date of the registration statement or becoming a listed security (including, without limitation, pursuant to a SPAC Transaction), and Participant shall execute an agreement reflecting the foregoing as may be requested by the Company (or any successor or parent thereof) or the underwriters at the time of such offering or listing.

16. <u>Plan Governs</u>. This Award Agreement is subject to all terms and provisions of the Plan. If there is a conflict between one or more provisions of this Award Agreement and one or more provisions of the Plan, the provisions of the Plan will govern. Capitalized terms used and not defined in this Award Agreement will have the meaning set forth in the Plan.

17. <u>Administrator Authority</u>. The Administrator will have the power to interpret the Plan and this Award Agreement and to adopt such rules for the administration, interpretation and application of the Plan as are consistent therewith and to interpret or revoke any such rules (including, but not limited to, the determination regarding whether any Shares subject to the Option have vested). All actions taken, and all interpretations and determinations made, by the Administrator in good faith will be final and binding upon Participant, the Company and all other interested persons. No member of the Administrator will be personally liable for any action, determination or interpretation made in good faith with respect to the Plan or this Award Agreement.

18. Electronic Delivery and Acceptance. The Company may, in its sole discretion, decide to deliver any documents related to Participant's current or future participation in the Plan, this Option, the Shares subject to this Option, any other securities of the Company or any other Company-related documents, by electronic means. By accepting this Option, whether electronically or otherwise, Participant hereby (a) consents to receive such documents by electronic means, (b) consents to the use of electronic signatures, and (c) agrees to participate in the Plan and/or receive any such documents through an on-line or electronic system established and maintained by the Company or a third party designated by the Company, including but not limited to the use of electronic signatures or click-through electronic acceptance of terms and conditions.

19. <u>Translation</u>. If Participant has received this Award Agreement, including appendices, or any other document related to the Plan translated into a language other than English, and the meaning of the translated version is different than the English version, the English version will control.

20. <u>Imposition of Other Requirements</u>. The Company reserves the right to impose other requirements on Participant's participation in the Plan, on the Option and on any Shares acquired under the Plan, to the extent the Company determines it is necessary or advisable in order to comply with any Applicable Laws or facilitate the administration of the Plan, and to require Participant to sign any additional agreements or undertakings that may be necessary to accomplish the foregoing. Furthermore, Participant understands that the Applicable Laws of the country in which he or she is resident at the time of grant, vesting, and/or exercise of this Option or the holding or disposition of Shares (including any rules or regulations governing securities, foreign exchange, tax, labor or other matters) may restrict or prevent exercise of this Option or may subject Participant to additional procedural or regulatory requirements he or she is solely responsible for and will have to independently fulfill in relation to this Option or the Shares. Participant also understands and agrees that if he works, resides, moves to, or otherwise is or becomes subject to Applicable Laws or company policies of another jurisdiction at any time, certain country-specific notices, disclaimers and/or terms and conditions may apply to Participant as from the Date of Grant, unless otherwise determined by the Company in its sole discretion.

21. Captions. Captions provided herein are for convenience only and are not to serve as a basis for interpretation or construction of this Award Agreement.

22. <u>Agreement Severable</u>. If any provision in this Award Agreement will be held invalid or unenforceable, such provision will be severable from, and such invalidity or unenforceability will not be construed to have any effect on, the remaining provisions of this Award Agreement.

23. <u>Modifications to this Award Agreement</u>. This Award Agreement and the Plan constitute the entire understanding of the parties on the subjects covered. Participant expressly warrants that he or she is not accepting this Award Agreement in reliance on any promises, representations, or inducements other than those contained herein. Modifications to this Award Agreement or the Plan can be made only in an express written contract executed by a duly authorized officer of the Company. Notwithstanding anything to the contrary in the Plan or this Award Agreement, the Company reserves the right to revise this Award Agreement as it deems necessary or advisable, in its sole discretion and without the consent of Participant, to comply with Code Section 409A or to otherwise avoid imposition of any additional tax or income recognition under Code Section 409A in connection to this Option.

24. <u>Amendment, Suspension or Termination of the Plar</u>. By accepting this Award, Participant expressly warrants that he or she has received an Option under the Plan, and has received, read and understood a description of the Plan. Participant understands that the Plan is discretionary in nature and may be amended, suspended or terminated by the Company at any time.

25. <u>Governing Law and Venue</u>. This Award Agreement will be governed by the laws of the State of Delaware, without giving effect to the conflict of law principles thereof. For purposes of litigating any dispute that arises under this Award Agreement, the parties hereby submit to and consent to the jurisdiction of the State of Florida and agree that such litigation will be conducted in the courts of Orange County, Florida, or the federal courts for the United States for the Middle District of Florida, and no other courts.

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# EXHIBIT B

## LUMINAR TECHNOLOGIES, INC.

# 2020 EQUITY INCENTIVE PLAN

# EXERCISE NOTICE

Luminar Technologies, Inc.

Attention:

1. <u>Exercise of Option</u>. Effective as of today, \_\_\_\_\_\_, \_\_\_\_, the undersigned ("*Purchaser*") hereby elects to purchase, \_\_\_\_\_\_, shares (the "*Shares*") of the Class A Common Stock of Luminar Technologies, Inc. (the "*Company*") under and pursuant to the 2020 Equity Incentive Plan (the '*Plan*'') and the Stock Option Award Agreement dated \_\_\_\_\_\_, \_\_\_\_\_ (the "*Award Agreement*"). The purchase price for the Shares will be USD \$\_\_\_\_\_\_, as required by the Award Agreement.

2. Delivery of Payment. Purchaser herewith delivers to the Company, or otherwise makes adequate arrangements satisfactory to the Company, the full purchase price of the Shares and any Tax-Related Items (as defined in the Agreement) to be paid in connection with the exercise of the Option.

3. <u>Representations of Purchaser</u>. Purchaser acknowledges that Purchaser has received, read and understood the Plan and the Award Agreement and agrees to abide by and be bound by their terms and conditions.

4. <u>Rights as Stockholder</u>. Until the issuance (as evidenced by the appropriate entry on the books of the Company or of a duly authorized transfer agent of the Company) of the Shares, no right to vote or receive dividends or any other rights as a stockholder will exist with respect to the Shares subject to the Option, notwithstanding the exercise of the Option. The Shares so acquired will be issued to Purchaser as soon as practicable after exercise of the Option. No adjustment will be made for a dividend or other right for which the record date is prior to the date of issuance, except as provided in Section 14 of the Plan.

5. <u>Tax Consultation</u>. Purchaser understands that Purchaser may suffer adverse tax consequences as a result of Purchaser's purchase or disposition of the Shares. Purchaser represents that Purchaser has consulted with any tax consultants Purchaser deems advisable in connection with the purchase or disposition of the Shares and that Purchaser is not relying on the Company for any tax advice.

6. Entire Agreement; Governing Law. The Plan and Award Agreement are incorporated herein by reference. This Exercise Notice, the Plan and the Award Agreement constitute the entire agreement of the parties with respect to the subject matter hereof and supersede in their entirety all prior undertakings and agreements of the Company and Purchaser with respect to the subject matter hereof, and may not be modified adversely to the Purchaser's interest except by means of a writing signed by the Company and Purchaser. This agreement is governed by the internal substantive laws, but not the choice of law rules, of the State of Delaware.

 Submitted by:
 Accepted by:

 PURCHASER:
 LUMINAR TECHNOLOGIES, INC.

 Signature
 By

 Print Name
 Title

#### LUMINAR TECHNOLOGIES, INC.

#### 2020 EQUITY INCENTIVE PLAN

#### RESTRICTED STOCK UNIT AWARD AGREEMENT

1. Unless otherwise defined herein, the terms defined in the Luminar Technologies, Inc. 2020 Equity Incentive Plan (the '*Plan*'') will have the same defined meanings in this Restricted Stock Unit Award Agreement (this "*Award Agreement*").

## 26. NOTICE OF RESTRICTED STOCK UNIT GRANT

#### Participant Name:

2. You have been granted the right to receive an Award of Restricted Stock Units, subject to the terms and conditions of the Plan and this Award Agreement, as follows:

Grant Number \_\_\_\_\_

3. Date of Grant \_\_\_\_\_

4. Vesting Commencement Date

Number of Restricted Stock Units

Vesting Schedule

Subject to Section 3 of this Award Agreement, the Restricted Stock Units will vest in accordance with the following schedule:

(a)

(b) If Participant ceases to be a Service Provider for any or no reason before Participant vests in the Restricted Stock Unit, the Restricted Stock Unit and Participant's right to acquire any Shares hereunder will terminate in accordance with Section 3 of this Award Agreement.

By Participant's signature and the signature of the representative of Luminar Technologies, Inc. (the "*Company*") below, or by Participant otherwise accepting this Award, Participant and the Company agree that this Award of Restricted Stock Units is granted under and governed by the terms and conditions of the Plan and this Award Agreement, including the terms and conditions of Restricted Stock Unit Grant, attached hereto as Exhibit A, all of which are made a part of this document. Participant has reviewed the Plan and this Award Agreement in their entirety, has had an opportunity to obtain the advice of counsel prior to executing this Award Agreement and fully understands all provisions of the Plan and Award Agreement. Participant hereby agrees to accept as binding, conclusive and final all decisions or interpretations of the Administrator on any questions relating to the Plan and Award Agreement.

PARTICIPANT:	LUMINAR TECHNOLOGIES, INC.
Signature	Ву
Print Name	Title

## EXHIBIT A

# TERMS AND CONDITIONS OF RESTRICTED STOCK UNIT GRANT

1. <u>Grant</u>. The Company hereby grants to the individual named in the Notice of Grant attached as Part I of this Award Agreement (the '*Participant*'') under the Plan an Award of Restricted Stock Units, subject to all of the terms and conditions in this Award Agreement and the Plan, which is incorporated herein by reference. Subject to Section 21 of the Plan, if there is a conflict between the terms and conditions of the Plan and the terms and conditions of the Plan and the terms and conditions of the Plan will prevail.

2. <u>Company's Obligation to Pay</u>. Each Restricted Stock Unit represents the right to receive a Share on the date it vests. Unless and until the Restricted Stock Units will have vested in the manner set forth in Section 3, Participant will have no right to receive Shares pursuant to any such Restricted Stock Units. Prior to actual payment of any vested Restricted Stock Units, such Restricted Stock Units will represent an unsecured obligation of the Company. Any Restricted Stock Units that vest in accordance with Section 3 will be settled by delivery of whole Shares as set forth hree in to Participant (or in the event of Participant's death, to his or her estate), subject to Participant satisfying any Tax-Related Items as set forth in Section 7. Subject to the provisions of Section 4, such vested Restricted Stock Units will be settled by delivery of whole Shares as soon as practicable after vesting, but in each such case within the period ending no later than the date that is two and one-half  $(2^{1}/_{2})$  months from the end of the Company's tax year that includes the vesting date. In no event will Participant be permitted, directly or indirectly, to specify the taxable year in which Shares will be issued upon payment of any Restricted Stock Units under this Award Agreement.

3. <u>Vesting Schedule</u>. The Restricted Stock Units awarded by this Award Agreement will vest in accordance with the vesting provisions set forth in the Notice of Grant. Restricted Stock Units scheduled to vest on a certain date or upon the occurrence of a certain condition will not vest in accordance with any of the provisions of this Award Agreement, unless Participant will have been continuously a Service Provider from the Date of Grant until the date such vesting occurs. Service Provider status for purposes of this Award will end on the day that Participant is no longer actively providing services as an Employee, Director, or Independent Contractor and will not be extended by any notice period or "garden leave" that may be required contractually or under Applicable Laws. Notwithstanding the foregoing, the Administrator (or any delegate) shall have the sole and absolute discretion to determine when Participant is no longer providing active service for purposes of Service Provider status and participation in the Plan.

4. <u>Administrator Discretion</u>. Notwithstanding anything in the Plan or this Award Agreement to the contrary, if the vesting of the balance, or some lesser portion of the balance, of the Restricted Stock Units is accelerated in connection with Participant's termination as a Service Provider (provided that such termination is a "separation from service" within the meaning of Code Section 409A, as determined by the Company), other than due to death, and if (x) Participant is a "specified employee" within the meaning of Code Section 409A at the time of such termination as a Service Provider and (y) the payment of such accelerated Restricted Stock Units will result in the imposition of additional tax under Code Section 409A if paid to Participant on or within the six (6) month period following Participant's termination as a Service Provider, then the payment of such accelerated Restricted Stock Units will not be made until the date six (6) months and one (1) day following the date of Participant's termination as a Service Provider, unless Participant dies following his or her termination as a Service Provider, in which case, the Restricted Stock Units will be stole to the additional tax imposed under Code Section 409A, so that none of the Restricted Stock Units will be requirements of Code Section 409A, so that none of the Restricted Stock Units provided under this Award Agreement tax imposed under Code Section 409A, and any ambiguities herein will be interpreted to be so exempt or so comply. Each payment payable under this Award Agreement is intended to constitute a separate payment for purposes of U.S. Treasury Regulation Section 1.409A-2(b)(2). Notwithstanding the foregoing, the Company makes no representations that the payments and benefits provided under this Award Agreement are exempt from or compliant with Code Section 409A.

5. <u>Forfeiture upon Termination of Status as a Service Provider</u>. Notwithstanding any contrary provision of this Award Agreement, any Restricted Stock Units that have not vested will be forfeited and will return to the Plan on the date that is thirty (30) days following the termination of Participant's status as a Service Provider. No additional Restricted Stock Units shall vest during such thirty (30) day period unless approved by the Administrator.

6. Death of Participant. Any distribution or delivery to be made to Participant under this Award Agreement will, if Participant is then deceased, be made to Participant's designated beneficiary, if so allowed by the Administrator in its sole discretion, or if no beneficiary survives Participant, the administrator or executor of Participant's estate. Any such transferee must furnish the Company with (a) written notice of his or her status as transferee, and (b) evidence satisfactory to the Company to establish the validity of the transfer and compliance with any Applicable Laws or regulations pertaining to said transfer.

7. Withholding of Taxes. Regardless of any action the Company or Participant's employer (the "Employer") takes with respect to any or all applicable national, local, or other tax or social contribution, withholding, required deductions, or other payments, if any, that arise upon the grant or vesting of the Restricted Stock Units or the holding or subsequent sale of Shares, and the receipt of dividends, if any, or otherwise in connection with the Restricted Stock Units or the Shares ("Tax-Related Items"), Participant acknowledges and agrees that the ultimate liability for all Tax-Related Items legally due by Participant is and remains Participant's responsibility and may exceed any amount actually withheld by the Company or the Employer. Participant further acknowledges and agrees that Participant is solely responsible for filing all relevant documentation that may be required in relation to the Restricted Stock Units or any Tax-Related Items (other than filings or documentation that is the specific obligation of the Company or a Parent, Subsidiary, or Employer pursuant to Applicable Laws) such as but not limited to personal income tax returns or reporting statements in relation to the grant, vesting or payment of the Restricted Stock Units, the holding of Shares or any bank or brokerage account, the subsequent sale of Shares, and the receipt of any dividends. Participant further acknowledges that the Company and the Employer (a) make no representations or undertakings regarding the treatment of any Tax-Related Items in connection with any aspect of the Restricted Stock Units, including the grant or vesting of the Restricted Stock Units, the subsequent sale of Shares acquired under the Plan, and the receipt of dividends, if any; and (b) do not commit to and are under no obligation to structure the terms of the Restricted Stock Units or any aspect of the Restricted Stock Units to reduce or eliminate Participant's liability for Tax-Related Items, or achieve any particular tax result. Participant also understands that Applicable Laws may require varying Share or Restricted Stock Unit valuation methods for purposes of calculating Tax-Related Items, and the Company assumes no responsibility or liability in relation to any such valuation or for any calculation or reporting of income or Tax-Related Items that may be required of Participant under Applicable Laws. Further, if Participant has become subject to tax in more than one jurisdiction between the Date of Grant and the date of any relevant taxable event, Participant acknowledges that the Company and/or the Employer (or former employer, as applicable) may be required to withhold or account for Tax-Related Items in more than one jurisdiction. Notwithstanding any contrary provision of this Award Agreement, no certificate representing the Shares will be issued to Participant, unless and until satisfactory arrangements (as determined by the Administrator) will have been made by Participant with respect to the payment of any Tax-Related Items which the Company determines must be withheld with respect to such Shares.

As a condition to the grant and vesting of the Restricted Stock Units and as set forth in Section 15 of the Plan, Participant hereby agrees to make adequate provision for the satisfaction of (and will indemnify the Company and any Parent or Subsidiary for) any Tax-Related Items. In this regard, Participant authorizes the Company and/or the Employer or their respective agents, at their discretion, to satisfy the obligations with regard to all Tax-Related Items by one or a combination of the following, in each case to the extent permitted by Applicable Laws: (i) by receipt of a cash payment from Participant; (ii) by withholding from Participant's wages or other cash compensation paid to Participant by the Company or the Employer; (iii) withholding Shares that otherwise would be issued to Participant upon payment of the vested Restricted Stock Units (provided that amounts withheld shall not exceed the amount permitted under Applicable Laws); (iv) by withholding from proceeds of the sale of Shares acquired upon payment of the vested Restricted Stock Units authorization); or (v) by any other arrangement approved by the Administrator.

Notwithstanding the foregoing, if Participant is subject to Section 16 of the Exchange Act, Participant's obligations with respect to all Tax-Related Items shall be satisfied by the Company withholding Shares that otherwise would be issued to Participant upon payment of the vested Restricted Stock Units; provided that amounts withheld shall not exceed the amount permitted under Applicable Laws. Any Shares withheld pursuant to this Section 7 shall be valued based on the Fair Market Value as of the date the withholding obligations are satisfied. Furthermore, Participant agrees to pay the Company or any Parent, Subsidiary, or Employer any Tax-Related Items that cannot be satisfied by the foregoing methods.

8. <u>Rights as Stockholder</u>. Neither Participant nor any person claiming under or through Participant will have any of the rights or privileges of a stockholder of the Company in respect of any Shares deliverable hereunder unless and until such Shares will have been issued (as evidenced by the appropriate entry on the books of the Company or of a duly authorized transfer agent of the Company). After such issuance, Participant will have all the rights of a stockholder of the Company with respect to voting such Shares and receipt of dividends and distributions on such Shares, but prior to such issuance, Participant will not have any rights to dividends and/or distributions on such Shares.

9. <u>No Guarantee of Continued Service or Grants</u>. PARTICIPANT ACKNOWLEDGES AND AGREES THAT THE VESTING OF THE RESTRICTED STOCK UNITS PURSUANT TO THE VESTING SCHEDULE HEREOF SHALL OCCUR ONLY BY CONTINUING AS A SERVICE PROVIDER AT THE WILL OF THE EMPLOYER OR CONTRACTING ENTITY (AS APPLICABLE) AND NOT THROUGH THE ACT OF BEING HIRED, BEING GRANTED THIS AWARD OF RESTRICTED STOCK UNITS OR ACQUIRING SHARES HEREUNDER. PARTICIPANT FURTHER ACKNOWLEDGES AND AGREES THAT THIS AWARD AGREEMENT, THE TRANSACTIONS CONTEMPLATED HEREUNDER AND THE VESTING SCHEDULE SET FORTH HEREIN DO NOT CONSTITUTE AN EXPRESS OR IMPLIED PROMISE OF CONTINUED ENGAGEMENT AS A SERVICE PROVIDER FOR THE VESTING PERIOD, FOR ANY PERIOD, OR AT ALL, AND WILL NOT INTERFERE IN ANY WAY WITH PARTICIPANT'S RIGHT OR THE RIGHT OF THE EMPLOYER OR THE COMPANY (OR ANY PARENT OR SUBSIDIARY) TO TERMINATE PARTICIPANT'S RELATIONSHIP AS A SERVICE PROVIDER AT ANY TIME, WITH OR WITHOUT CAUSE, SUBJECT TO APPLICABLE LAWS.

Participant also acknowledges and agrees that: (a) the Plan is established voluntarily by the Company, it is discretionary in nature and it may be modified, amended, suspended or terminated by the Company at any time; (b) the grant of Restricted Stock Units is voluntary and occasional and does not create any contractual or other right to receive future grants of Restricted Stock Units, or benefits in lieu of Restricted Stock Units even if Restricted Stock Units have been granted repeatedly in the past; (c) all decisions with respect to future awards of Restricted Stock Units, if any, will be at the sole discretion of the Company; (d) Participant's participation in the Plan is voluntary; (e) the Restricted Stock Units and the Shares subject to the Restricted Stock Units are extraordinary items that do not constitute regular compensation for services rendered to the Company or the Employer, and that are outside the scope of Participant's employment contract, if any; (f) the Restricted Stock Units and the Shares subject to the Restricted Stock Units and the Shares subject to the Restricted Stock Units and the Shares subject to the Restricted Stock Units are not intended to replace any pension rights or compensation; or (g) the Restricted Stock Units and the Shares subject to the Restricted Stock Units are not part of normal or expected compensation or salary for any purposes, including, but not limited to, calculating any severance, resignation, termination, redundancy, dismissal, or end of service payments, bonuses, long-service awards, pension or retirement or welfare benefits or similar payments and in no event should be considered as compensation for, or relating in any way to, past services for the Company or the Employer, subject to Applicable Laws.

10. <u>Address for Notices</u>. Any notice to be given to the Company under the terms of this Award Agreement will be addressed to the Company, in care of its Secretary at Luminar Technologies, Inc., 12601 Research Parkway, Orlando, FL 32826, or at such other address as the Company may hereafter designate in writing.

11. Grant is Not Transferable. Except to the limited extent provided in Section 6, this grant and the rights and privileges conferred hereby may not be transferred, assigned, pledged or hypothecated in any way (whether by operation of Applicable Laws or otherwise) and may not be subject to sale under execution, attachment or similar

process. Upon any attempt to transfer, assign, pledge, hypothecate or otherwise dispose of this grant, or any right or privilege conferred hereby, or upon any attempted sale under any execution, attachment or similar process, this grant and the rights and privileges conferred hereby immediately will become null and void.

12. <u>Binding Agreement</u>. Subject to the limitation on the transferability of this grant contained herein, this Award Agreement will be binding upon and inure to the benefit of the heirs, legatees, legal representatives, successors and assigns of the parties hereto.

13. Additional Conditions to Issuance of Stock and Imposition of Other Requirements. If at any time the Company will determine, in its discretion, that the listing, registration, qualification or compliance of the Shares upon or with any securities exchange or under any Applicable Laws, the tax code and related regulations or the consent or approval of any governmental regulatory authority is necessary or desirable as a condition to the issuance of Shares to Participant (or his or her estate) hereunder, such issuance will not occur unless and until such listing, registration, qualification, compliance, consent or approval will have been completed, effected or obtained free of any conditions not acceptable to the Company. Where the Company determines that the delivery of any Shares will violate any state, federal or foreign securities or exchange laws or other Applicable Laws, the Company will defer delivery until the earliest date at which the Company reasonably anticipates that the delivery of Shares will no longer cause such violation. The Company will make all reasonable efforts to meet the requirements of any Applicable Laws or securities exchange and to obtain any such consent or approval of any such governmental authority or securities exchange. The Company shall not be obligated to issue any Shares pursuant to the Restricted Stock Units at any time if the issuance of Shares violates or is not in compliance with any Applicable Laws.

Furthermore, the Company reserves the right to impose other requirements on Participant's participation in the Plan, on the Restricted Stock Units and on any Shares acquired under the Plan, to the extent the Company determines it is necessary or advisable in order to comply with any Applicable Laws or facilitate the administration of the Plan, and to require Participant to sign any additional agreements or undertakings that may be necessary to accomplish the foregoing. Furthermore, Participant understands that the Applicable Laws of the country in which he or she is resident at the time of grant or vesting of the Restricted Stock Units or the holding or disposition of Shares (including any rules or regulations governing securities, foreign exchange, tax, labor or other matters) may restrict or prevent the issuance of Shares or may subject Participant to additional procedural or regulatory requirements he or she is solely responsible for and will have to independently fulfill in relation to the Restricted Stock Units or the Shares. Participant also understands and agrees that if he works, resides, moves to, or otherwise is or becomes subject to Applicable Laws or company policies of another jurisdiction at any time, certain country-specific notices, disclaimers and/or terms and conditions may apply to Participant as from the Date of Grant, unless otherwise determined by the Company in its sole discretion.

14. Lock-Up Agreement. If so requested by the Company (or any successor thereof) or the underwriters in connection with any transaction pursuant to which the securities of the Company will be exchanged for securities of the Company (or any successor or parent thereof), registered under the Securities Act of 1933, as amended, including, without limitation, through a transaction with a publicly-listed blank check company then registered under the Securities Act (a "*SPAC Transaction*"), Participant shall not sell, make any short sale of, loan, grant any option for the purchase of, or otherwise dispose of any securities of the Company (or any successor thereof) however or whenever acquired (except for those being registered) without the prior written consent of the Company or such underwriters, as the case may be, for 180 days from the effective date of the registration statement or becoming a listed security (including, without limitation, pursuant to a SPAC Transaction), and Participant shall execute an agreement reflecting the foregoing as may be requested by the Company (or any successor or parent thereof) or the underwriters at the time of such offering or listing.

15. <u>Plan Governs</u>. This Award Agreement is subject to all terms and provisions of the Plan. If there is a conflict between one or more provisions of this Award Agreement and one or more provisions of the Plan, the provisions of the Plan will govern. Capitalized terms used and not defined in this Award Agreement will have the meaning set forth in the Plan.

16. <u>Administrator Authority</u>. The Administrator will have the power to interpret the Plan and this Award Agreement and to adopt such rules for the administration, interpretation and application of the Plan as are consistent therewith and to interpret or revoke any such rules (including, but not limited to, the determination regarding whether any Restricted Stock Units have vested). All actions taken, and all interpretations and determinations made, by the Administrator in good faith will be final and binding upon Participant, the Company and all other interested persons. No member of the Administrator will be personally liable for any action, determination or interpretation made in good faith with respect to the Plan or this Award Agreement.

17. Electronic Delivery and Acceptance; Translation. The Company may, in its sole discretion, decide to deliver any documents related to Participant's current or future participation in the Plan, this Award, the Shares subject to this Award, any other securities of the Company or any other Company-related documents, by electronic means. By accepting this Award, whether electronically or otherwise, Participant hereby (a) consents to receive such documents by electronic means, (b) consents to the use of electronic signatures, and (c) agrees to participate in the Plan and/or receive any such documents through an on-line or electronic system established and maintained by the Company or a third party designated by the Company, including but not limited to the use of electronic signatures or click-through electronic acceptance of terms and conditions.

18. <u>Translation</u>. If Participant has received this Award Agreement, including appendices, or any other document related to the Plan translated into a language other than English, and the meaning of the translated version is different than the English version, the English version will control.

19. Captions. Captions provided herein are for convenience only and are not to serve as a basis for interpretation or construction of this Award Agreement.

19. <u>Agreement Severable</u>. If any provision in this Award Agreement will be held invalid or unenforceable, such provision will be severable from, and such invalidity or unenforceability will not be construed to have any effect on, the remaining provisions of this Award Agreement.

20. <u>Modifications to this Award Agreement</u>. This Award Agreement and the Plan constitute the entire understanding of the parties on the subjects covered. Participant expressly warrants that he or she is not accepting this Award Agreement in reliance on any promises, representations, or inducements other than those contained herein. Modifications to this Award Agreement or the Plan can be made only in an express written contract executed by a duly authorized officer of the Company. Notwithstanding anything to the contrary in the Plan or this Award Agreement, the Company reserves the right to revise this Award Agreement as it deems necessary or advisable, in its sole discretion and without the consent of Participant, to comply with Code Section 409A or to otherwise avoid imposition of any additional tax or income recognition under Code Section 409A in connection to this Award of Restricted Stock Units.

21. Data Privacy. Participant hereby explicitly and unambiguously consents to the collection, use and transfer, in electronic or other form, of Participant's Personal Data (as described below) by and among, as applicable, the Company, any Parent, Subsidiary, or affiliate, or third parties as may be selected by the Company for the exclusive purpose of implementing, administering and managing Participant's participation in the Plan. Participant understands that refusal or withdrawal of consent will affect Participant's ability to participate in the Plan; without providing consent, Participant will not be able to participate in the Plan or realize benefits (if any) from the Restricted Stock Units.

Participant understands that the Company and any Parent, Subsidiary, affiliate, or designated third parties may hold personal information about Participant, including, but not limited to, Participant's name, home address and telephone number, date of birth, social insurance number or other identification number, salary, nationality, job title, any shares of stock or directorships held in the Company or any Parent, Subsidiary, or affiliate, details of all Restricted Stock Units or any other entitlement to Shares awarded, canceled, exercised, vested, unvested or outstanding in Participant's favor ("Personal Data"). Participant understands that Personal Data may be transferred to any Parent, Subsidiary, affiliate, or third parties assisting in the implementation, administration and management of the Plan, that these recipients may be located in the United States, Participant's country (if

different than the United States), or elsewhere, and that the recipient's country may have different data privacy laws and protections than Participant's country. In particular, the Company may transfer Personal Data to the broker or stock plan administrator assisting with the Plan, to its legal counsel and tax/accounting advisor, and to the affiliate or entity that is Participant's employer and its payroll provider.

# Participant should also refer to any data privacy policy implemented by the Company (which will be available to Participant separately and may be updated from time to time) for more information regarding the collection, use, storage, and transfer of Participant's Personal Data.

22. Foreign Exchange Fluctuations and Restrictions. Participant understands and agrees that the future value of the underlying Shares is unknown and cannot be predicted with certainty and may decrease. Participant also understands that neither the Company, nor any affiliate is responsible for any foreign exchange fluctuation between local currency and the United States Dollar or the selection by the Company or any affiliate in its sole discretion of an applicable foreign currency exchange rate that may affect the value of the Restricted Stock Units or Shares received (or the calculation of income or Tax-Related Items thereunder). Participant understands and agrees that any cross-border remittance made to transfer proceeds received upon the sale of Shares must be made through a locally authorized financial institution or registered foreign exchange agency and may require Participant to provide such entity with certain information regarding the transaction.

23. <u>Amendment, Suspension or Termination of the Plar</u>. By accepting this Award, Participant expressly warrants that he or she has received an Award of Restricted Stock Units under the Plan, and has received, read and understood a description of the Plan. Participant understands that the Plan is discretionary in nature and may be amended, suspended or terminated by the Company at any time.

24. <u>Governing Law and Venue</u>. This Award Agreement will be governed by the laws of the State of Delaware, without giving effect to the conflict of law principles thereof. For purposes of litigating any dispute that arises under this Award of Restricted Stock Units or this Award Agreement, the parties hereby submit to and consent to the jurisdiction of the State of Florida, and agree that such litigation will be conducted in the courts of Orange County, Florida, or the federal courts for the United States for the Middle District of Florida, and no other courts.

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# Subsidiaries of Luminar Technologies, Inc.

Name of Subsidiary	Jurisdiction of Organization
Luminar, LLC	Delaware
Luminar Semiconductor, Inc.	Delaware
BFE Acquisition Sub II, LLC (dba Black Forest Engineering)	Delaware
OptoGration, Inc.	Delaware
Freedom Photonics, LLC	California
Condor Acquisition Sub I, Inc.	Delaware
Condor Acquisition Sub II, Inc.	Delaware
Luminar Limited	Cayman Islands
Luminar Technologies (Shanghai) Co., Ltd.	China
Luminar GmbH	Germany
Luminar Hong Kong Limited	Hong Kong
Luminar Technology Services (India) Private Limited	India
Luminar LTC Israel Ltd.	Israel
Luminartech Mexico, S. DE R.L. DE C.V.	Mexico
Luminar Sweden AB	Sweden

# CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in Registration Statement No. 333-253658 on Form S-8, Registration Statement No. 333-262250 on Form S-3, Registration Statement No. 333-257989 on Form S-3, Registration Statement No. 333-251657 on Form S-3, Registration Statement No. 333-263745 on Form S-3, and Registration Statement No. 333-265752 on Form S- 8 of our reports dated February 28, 2023, relating to the financial statements of Luminar Technologies, Inc. and the effectiveness of Luminar Technologies, Inc.'s internal control over financial reporting appearing in this Annual Report on December 31, 2022.

/s/ Deloitte & Touche LLP

San Jose, California February 28, 2023

#### **CERTIFICATION OF PRINCIPAL EXECUTIVE OFFICER**

#### PURSUANT TO RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934, AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Austin Russell, certify that:

- 1. I have reviewed this annual report on Form 10-K of Luminar Technologies, Inc. for the year ended December 31, 2022;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 28, 2023

By:

By: /s/ Austin Russell

Austin Russell Chief Executive Officer (Principal Executive Officer) Exhibit 31.1

#### CERTIFICATION OF CHIEF FINANCIAL OFFICER

#### PURSUANT TO RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934, AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002

I, Thomas J. Fennimore, certify that:

- 1. I have reviewed this annual report on Form 10-K of Luminar Technologies, Inc. for the year ended December 31, 2022;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 28, 2023

By:

/s/ Thomas J. Fennimore

Thomas J. Fennimore Chief Financial Officer (Principal Financial and Accounting Officer) Exhibit 31.2

#### CERTIFICATION OF CHIEF EXECUTIVE OFFICER AND CHIEF FINANCIAL OFFICER

### PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

I, Austin Russell, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Annual Report of Luminar Technologies, Inc. (the "Company") on Form 10-K for the fiscal year ended December 31, 2022 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended, and that information contained in such Annual Report on Form 10-K fairly presents in all material respects the financial condition and results of operations of the Company.

Date: February 28, 2023

/s/ Austin Russell

Austin Russell Chief Executive Officer (Principal Executive Officer)

I, Thomas J. Fennimore, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that the Annual Report of Luminar Technologies, Inc. (the "Company") on Form 10-K for the fiscal year ended December 31, 2022 fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended, and that information contained in such Annual Report on Form 10-K fairly presents in all material respects the financial condition and results of operations of the Company.

Date: February 28, 2023

Bv:

/s/ Thomas J. Fennimore

Thomas J. Fennimore Chief Financial Officer (Principal Financial and Accounting Officer)

This certification accompanies the Form 10-K to which it relates, is not deemed filed with the Securities and Exchange Commission and is not to be incorporated by reference into any filing of Luminar Technologies, Inc. under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended (whether made before or after the date of the Form 10-K), irrespective of any general incorporation language contained in such filing.