

## Q12023 Quarterly Business Update

MAY 9, 2023





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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 "Risk Factors" in Item 1A of Part I of our Annual Report on Form 10-K for the fiscal year ended December 31, 2022 and subsequent filings with the Securities and Exchange Commission, including, but not limited to the following: (i) 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; (ii) 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; (iii) Customers cancel or postpone implementation of our technology; (iv) We may not be able to integrate our technology successfully into a larger system with other sensing modalities; and (v) 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.

### What's inside

Business update / recent highlights

Industrialization progress

Commercial momentum

Product development progress

2023: key milestones and guidance

Q1'23: summary financial results

Appendix



## Q1'23 Business update / recent highlights



- New high-volume automated Monterrey, Mexico factory now online
  - Facility online ahead of guidance provided at Luminar Day
  - New factory will complete a rigorous validation and optimization process leading up to first high-volume global production vehicle start of production (SOP)
- (2) TPK signs partnership agreement with Luminar for new higher-volume production in Asia
  - Facility to have initial annual capacity of up to 600K to support awarded vehicle programs, with ability to further expand capacity for additional demand
- (3) Shipped Iris+ B samples to lead customer; on track to enter Iris+ C-phase in 2023
  - On track to complete software to support Volvo and Mercedes-Benz series production programs
  - Opportunistic strategic activity in the quarter to expand engineering and accelerate development; hired specialized teams from Argo AI, Seagate, and Velodyne/Ouster
  - Announced expansions/new vehicle models with Mercedes-Benz, Polestar, Volvo Cars
    - Volvo Cars unveiled EX90 Excellence variant, with Luminar as standard; EX90 pre-orders surpassed Volvo Cars' "boldest and most ambitious internal projections"
  - Q1 revenue higher than guidance; affirm FY'23 financial guidance & milestones
    - Q1'23 revenue \$14.5M; up 112% YoY, beating expectations

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Progress towards profitability demonstrated with gross loss improving QoQ

Watch a video tour of the new high volume manufacturing facility at: <a href="https://t.co/dSi4Uhxj80">https://t.co/dSi4Uhxj80</a>

# Successful bring-up of automated, high-volume factory in MX



- Timeline to bring facility online came in ahead of schedule in Q1, versus guidance at Luminar Day for Q2 and original target of 2H'23
- New highly automated, high-volume manufacturing facility with Celestica will now complete a rigorous validation & optimization process through 2H'23



The new dedicated facility for high-volume production of Luminar's sensors is operated by Celestica, a leader in design, manufacturing, and supply chain solutions. This new facility will have initial capacity for up to 250K sensors per year, expandable to approximately 500K sensors per year.





Construction began in July '22; high-volume line installation began in Dec '22







Luminar executive team and OEM leadership in the cleanroom after successful audit

## TPK and Luminar partner for high-volume production in Asia



- Luminar is expected to be equipped on millions of vehicles throughout Asia this decade
- New facility will have initial capacity of up to 600K sensors annually to support awarded programs from OEMs, with ability to further expand capacity with additional demand
- TPK has entered into a definitive agreement to proceed with an investment in Luminar, reflecting TPK's belief in Luminar's leading technology and economic trajectory



TPK has a strong track record of execution for producing innovative high-performance and automotive-grade technology at scale.









The Luminar executive team gathered with TPK management for a signing ceremony in Xiamen, followed by a press conference in Shanghai.

## Luminar Showcased at Shanghai Auto Show





- China showing strong demand for lidar to enable next-generation safety & autonomy
- Approx. half of the 20M vehicles sold in China last year were foreign-branded automakers, including Luminar partners
- Of the >20 production vehicle models Luminar is planned into, majority are also slated for the China market

Polestar CEO, Thomas Ingenlath, on stage at Auto Shanghai









In Shanghai, Volvo's display featured Luminar (top left). Polestar CEO, Thomas Ingenlath joined Luminar CEO Austin Russell for a photo on stage (bottom left). Luminar's team participated in a live drive to experience the Luminar lidar-enabled safety and autonomous capabilities in SAIC's Rising Auto R7 (above).

## New Luminar-equipped Volvo EX90 Excellence

"The EX90 Excellence is the safest four-seater we've ever built, and it has an invisible shield of safety enabled by our latest sensing technology, inside and outside, as well as lidar technology as standard from Luminar and a groundbreaking driver understanding system."

### VOLVO











Volvo Cars unveiled the EX90 Excellence in Shanghai and put a spotlight on the capability of Luminar lidar, which comes standard on every vehicle.

# Expanded Polestar partnership extends scope for future cars including Polestar 5

"Luminar is at the forefront of lidar technology development and this closer collaboration will allow for greater innovation in our cars to come. We look forward to combining our R&D and product design expertise to deliver truly stunning lidar integration and capabilities for the Polestar brand."



## Mercedes-Benz deal expanded across next-gen production vehicle lines









Austin Russell with Mercedes-Benz CTO Markus Schäfer (Image credit: TechCrunch)

# Iris+ B samples delivered to lead series production OEM





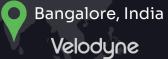


In Q1, Luminar brought online a new world-class, long-range test facility in Orlando, designed to validate the leading resolution-at-range performance of its Iris sensors

# Strategically expanded talent, IP & assets to accelerate tech roadmap









## Exclusive ecosystem partners

Internal: Luminar Semiconductor



External:
Announced in Q1



# On track to achieve key 2023 milestones and financial guidance



#### **Business** milestones



#### Industrialization / Scale

Target: Bring high-volume, automated manufacturing MX facility online; Meet Volvo SOP requirements Status: Achieved bringing MX facility online in Q1, ahead of guidance. On track to SOP requirements.



#### Execute Product & Technology Roadmap

Target: Enter Iris+ C-phase; Build next-gen lidar prototype; Complete software for Volvo & Mercedes SOP Status: On track. In Q1, achieved shipping Iris+ B samples to

Status: On track. In Q1, achieved shipping Iris+ B samples to lead customer; completing software milestones.



#### **Grow the Business**

Target: Grow Order Book<sup>1</sup> by at least \$1 Billion Status: On track. In Q1, announced expansion of partnerships with Mercedes-Benz and Polestar; Volvo unveiled new Luminar-equipped EX90 Excellence. Financial guidance (unchanged)

2023 Revenue ≥100% growth vs FY'22

Gross Margin (Non-GAAP)

Positive by Q4'23

Cash / liquidity >\$300M at year-end 2023



## Q1'23 financial results & Q2/2H'23 commentary

#### Q1'23 revenue: \$14.5M

- Q1 revenue up 112% YoY; ahead of guidance
- Q1 revenue beat primarily driven by higher program revenue and sensor sales
- Sequential organic revenue growth across all business segments

## Q1 GAAP gross loss: \$(14.6)M; Non-GAAP: \$(11.8)M

 Sequential improvement from \$(23.0)M Non-GAAP gross loss in Q4'22

### Cash position<sup>1</sup>: \$422.3M

• Q1 free cash flow<sup>2</sup> of \$(76.4)M improved slightly sequentially from \$(79.5)M in Q4'22

#### Q2'23 guidance

- Revenue: \$15M to \$17M
- Non-GAAP EPS<sup>3</sup>: relatively similar to Q1 of \$(0.24)

#### 2H'23 expected improvements

- On track to non-GAAP gross margin positive by Q4'23
- Q1 COGS includes ~\$11M of launch & other costs, which are expected to sharply decline in 2H'23
- Q1 free cash flow includes ~\$30M of launch and other costs, which are expected to sharply decline in 2H'23
- As Luminar's business ramps up and launch costs ramp down, free cash flow run rate expected to improve ~50% by year-end relative to O1

Notes: <sup>1</sup>Includes cash, cash equivalents and marketable securities

<sup>&</sup>lt;sup>2</sup> Defined as operating cash flow less capex

<sup>&</sup>lt;sup>3</sup> Please refer to Reconciliation of GAAP to Non-GAAP forecasts slide for a reconciliation of Non-GAAP to GAAP EPS guidance



## Appendix



## Q1'23 selected financials



### (In millions)

	Mar 31, 2023	Dec 31, 2022
Cash and cash equivalents	\$89.9	\$69.6
Marketable securities	\$332.4	\$419.3
Cash, cash equivalents & marketable securities	\$422.3	\$488.9
Total Assets	\$658.4	\$687.3

		GAAP Three months ended Mar 31,	
	2023	2022	
Revenue	\$14.5	\$6.9	
Cost of sales	\$29.1	\$16.7	
Gross loss	\$(14.6)	\$(9.8)	
Operating expenses	\$127.3	\$72.5	

	Three months	Three months ended Mar 31,	
	2023	2022	
Free cash flow <sup>1</sup>	\$(76.4)	\$(37.8)	



### Reconciliation of GAAP to non-GAAP actuals

### (In millions, excluding per share amounts)

	Three months ended Mar 31,	
	2023	2022
GAAP cost of sales	\$29.1	\$16.7
Stock-based compensation	\$(2.7)	\$(1.8)
Amortization of intangibles	\$(0.2)	\$(0.0)
Non-GAAP cost of sales	\$26.3	\$14.8
Non-GAAP gross loss	\$(11.8)	\$(8.0)

	Three months end	Three months ended Mar 31,	
	2023	2022	
Operating cash flow	\$(64.7)	\$(32.8)	
Capex (Incl. advances) <sup>1</sup>	\$(11.7)	\$(5.0)	
Free cash flow	\$(76.4)	\$(37.8)	

	Three months ended Mar 31,	
	2023	2022
GAAP EPS	\$(0.40)	\$(0.25)
GAAP Net Income (Loss)	\$(146.8)	\$(88.3)
Stock based compensation	\$56.0	\$26.7
Amortization of intangibles	\$1.1	\$0.1
Legal, regulatory filing and M&A transaction expenses	\$0.0	\$1.7
Warrant fair value change	\$1.1	\$3.9
Non-GAAP Net Income (Loss)	\$(88.7)	\$(56.0)
Weighted avg. shares outstanding (millions)	370.7	348.7
Non-GAAP EPS	\$(0.24)	\$(0.16)



### Reconciliation of GAAP to non-GAAP forecasts

### (In per share amounts)

	Q2'2023F
GAAP EPS	~\$0.40/sh range
Stock based compensation	~\$0.13-0.16
Amortization of intangibles & other items	~\$0.01
Non-GAAP EPS	Mid-\$(0.20)/sh range