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

FORM 8-K

CURRENT REPORT Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): June 8, 2022

Aeluma, Inc.
(Exact name of registrant as specified in its charter)

Delaware		000-56218	85-2807351					
(State or other jurisdiction of incorporation)		(Commission File Number)	(IRS Employer Identification No.)					
	,		110111111111111111111111111111111111111					
	27 Castilian Drive Goleta, California		93117					
	(Address of principal executive offices)		(Zip Code)					
		805-351-2707						
	(F	Registrant's telephone number, including area co	ode)					
Check the appro	opriate box below if the Form 8-K filing is inte	ended to simultaneously satisfy the filing obligation	of the registrant under any of the following provisions:					
☐ Written co	mmunications pursuant to Rule 425 under the	Securities Act (17 CFR 230.425)						
☐ Soliciting	material pursuant to Rule 14a-12 under the Ex	change Act (17 CFR 240.14a-12)						
□ Pre-comm	encement communications pursuant to Rule 14	4d-2(b) under the Exchange Act (17 CFR 240.14d-	2(b))					
□ Pre-comm								
	•							
securities regi	stered pursuant to Section 12(b) of the Act:	none.						
	ck mark whether the registrant is an emerging xchange Act of 1934 (§240.12b-2 of this chap		curities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 o					
			Emerging growth company					
	growth company, indicate by check mark if the dards provided pursuant to Section 13(a) of the		nsition period for complying with any new or revised financia					
Item 8.01 Othe	er Events.							
		tation the Company will use during its presentat ke Village, CA. The presentation is furnished as Ex	ion at the 12th Annual LD Micro Invitational Conference of this Physics (hibit 99.1 to this Current Report on Form 8-K.					
Item 9.01 Fina	ncial Statements and Exhibits.							
(d) Exhibits.								
Exhibit								
Number	Exhibit							
99.1	Power Point Presentation							
99.1 104	Cover Page Interactive Data File (embedded v							

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

AELUMA, INC.

Date: June 8, 2022 /s/ Jonathan Klamkin By:

Jonathan Klamkin

President, Chief Executive Officer and Director





Sensing Reimagined™

Investor Presentation

June 8, 2022

Forward Looking Statements



This presentation contains summary information about Aeluma, Inc. ("Aeluma") as of the date hereof. The information in this presentation is of general background and contains an overview and summary of certain data selected by the management of Aeluma. It does not purport to be complete.

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Some of the statements appearing in this presentation are in the nature of forward looking statements. You should be aware that such statements are predictions based on assumptions, and are subject to inherent risks and uncertainties. Those risks and uncertainties include factors and risks specific to the industry in which Aeluma operates as well as general economic conditions, prevailing exchange rates and interest rates and conditions in the financial markets and other factors that are in some cases beyond Aeluma's control. As a result, any or all of the Aeluma's forward-looking statements in this presentation may turn out to be inaccurate. Except as required by law, we are under no duty to update or revise any of the forward-looking statements, whether as a result of new information, future events or otherwise, after the date of this presentation. These forward-looking statements speak only as of the date of this presentation, and we assume no obligation to update or revise these forward-looking statements for any reason.



At a Glance



Enabling the future of automation with high performance sensors

Overview-

Aeluma is a semiconductor company specializing in scalable, cost-effective sensor technologies for advanced LiDAR solutions.

Corporate Headquarters: Goleta, California (Infrared Capital of the World) Founded: 2019

Employees: 10 (including five PhDs with 70+ years experience)

Highlights

Broad and defendable intellectual property portfolio

World-class technical team

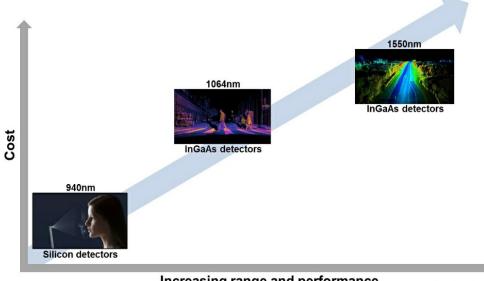
Highly experienced advisors and seed investors including Nobel Laureate Shuji Nakamura

Went public through Form 10 Reverse Merger in June 2021 with \$8M raise and awaiting approval of 15c2-11 and DTC eligibility to commence trading

Aeluma's Initial Focus on Automotive LiDAR



- LiDAR is essential for Autonomous Driving and Advanced Driver Assistance Systems (ADAS).
- Mid- and long-range LiDAR sensors require InGaAs-based receivers², however, InGaAs manufacturing is expensive and low volume therefore preventing scaling and broad adoption.3



LiDAR: Light detection and ranging InGaAs: Indium Gallium Arsenide Si: Silicon

Increasing range and performance

Note: Outcomes cannot be guaranteed. Range and cost estimates are not based on actual data. Sources of images: blog.laserto.com; novuslight.com; techcrunch.com; i-microwaves.com

https://www.iihs.org/news/detail/pedestrian-crash-avoidance-systems-cut-crashes-but-not-in-the-dark
 2. C. Rabiau, "LIDAR - A new (self-driving) vehicle for introducing optics to..." ETOP 2019, paper 11143_138.
 3. https://www.mdpl.com/2076-3417/9/19/4093

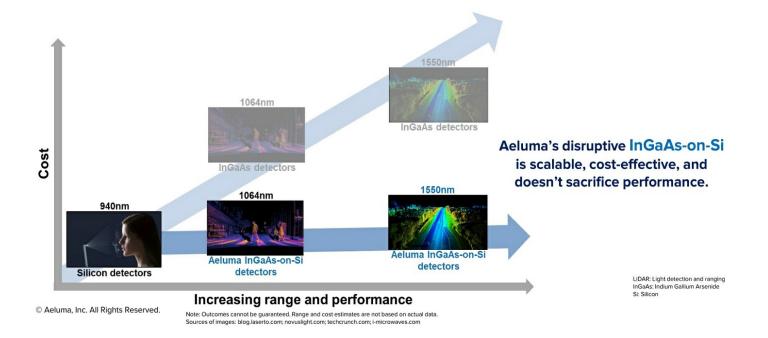
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Aeluma's Goal:

To Provide Increased Visibility and Longer Range Cost Effectively



Manufacturing high-performance InGaAs photodetector arrays at Silicon cost levels



Aeluma Outperforms the Competition



Technology Comparison

Metric	Aeluma InGaAs-on-Si	Conventional InGaAs (on InP)	SPAD (on Si)	Germanium (on Si)	Thin film (on Si)
Wavelength range	1000-1700nm	1000-1700nm	<950nm	<1550nm	<1550nm
Sensitivity	High	High	Moderate	Moderate	Moderate
Outdoor environments	Suitable	Suitable	Not as suitable	Somewhat suitable	Somewhat suitable
Long range LiDAR	Suitable	Suitable	Not suitable	Somewhat suitable	Somewhat suitable
Eye safe at high power	Yes	Yes	No	Yes	Yes
Manufacturing cost	Low	High	Low	Low	Low
Scalability	High	Low	High	High	Not proven

Aeluma's technology enables high performance with scalable, cost-effective manufacturing.



Market:

Automotive OEM LiDAR Demand is Increasing





Nissan Motor Corporation: "Nissan aims to expand ProPILOT technology to over 2.5 million Nissan and INFINITI vehicles by fiscal year 2026. The company will also further develop its autonomous vehicle technologies, aiming to incorporate next generation LIDAR systems on virtually every new model by fiscal year 2030."

https://usa.nissannews.com/en-US/releases/nissan-unveils-ambition-2030vision-to-empower-mobility-and-beyond

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Market:

Automotive OEM LiDAR Demand is Increasing



Mercedes Taps Luminar for Laser Sensors, Takes Stake in the Company

- Technology company also has production pacts with Volvo, SAIC
- European automakers 'ahead of the game' on lidar, CEO says

By Gabrielle Coppola

January 20, 2022, 6:00 AM PST *Updated on January 20, 2022, 9:41* AM PST

From Hyperdrive



"The fully electric successor to Volvo Cars' XC90, to be revealed in 2022, will come with state-of-the-art sensors, including LiDAR technology."

https://www.media.volvocars.com/us/en-us/media/pressreleases/283443

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Aiming to Service a Broad Market

High Performance Imaging for a Variety of Markets



Initial target markets



Future potential markets













LiDAR for Automotive and Industrial 2030 TAM: \$5B-\$42B^{1,2}

2024 Market Projections³

113 million automotive vehicles

131 million tablets

1.73 billion mobile phones

Aeluma's technology can support this level of scale.

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1. https://www.bloomberg.com/press-releases/2022-05-31/lidar-market-size-to-be-worth-4-71-billion-by-2030-grand-view-research-inc;
2. AEye Presentation, LD Micro Invitational 2022; 3. www.idc.com Note: Outcomes cannot be guaranteed.

Aeluma's Technology Breakthrough



Scalable, Cost Effective Manufacturing Enabled by Cutting-Edge Intellectual Property

Conventional manufacturing of InGaAs photodetector arrays

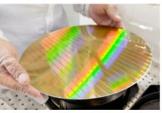






Non-scalable, manual and low throughput

Aeluma high performance InGaAs photodetector arrays with Silicon manufacturing







- √ Highly automated and ability to produce many arrays per wafer
- √ 10X lower manufacturing cost for mass market applications

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Note: Outcomes cannot be guaranteed.

Aeluma's Headquarters

Facility with manufacturing cleanroom in ideal location for development

- Located in Goleta, California High-Tech Corridor
- In the heart of the Infrared Capital of the World
- 9,000 sq. ft. space with cleanroom facility
- Close to University of California Santa Barbara





Aelum



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Aeluma's Cost-Effective Scalable Manufacturing



Unique 12-inch Wafer Capability and Strong Intellectual Property

- Commercial 12-inch state-of-the-art MOCVD tool
- Set up for cassette loading production
- One of only a few such tools worldwide
- Extensive patent protection and trade secrets







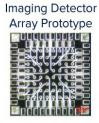
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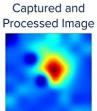
World's First









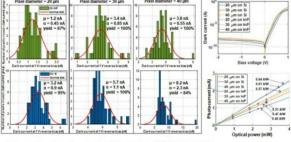


- array realized directly on Silicon
 - · Performance on Silicon similar to that on conventional InP

World's first InGaAs imaging detector

Demonstration performed with small Silicon wafer and is transferable to large Silicon wafers for cost-effective manufacturing

Smmary of Performance Data



Reference to university research: B. Song, et al., CLEO 2021 (UCSB). Internal testing, no third party verification. Past results are not a guarantee of future results

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Milestone Achievements and Traction

















Concept and early-stage demonstration

Prepare facility

Install and qualify equipment

First 12-inch wafer

Prototype fabrication **Deliver first engineering** samples to customer

2019

2020

transphorm

Q2-2021

Q4-2021

Q1-2022

Q3-2021

Seed Funding APO

Q2-2022

Aeluma's Go-to-Market Strategy: Partner with strategic system integrators, Tier 1 automotive suppliers, and semiconductor foundries to implement Aeluma's technology in LiDAR sensor products

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Note: Outcomes cannot be guaranteed.

Our Team



Visionary Leadership and Seasoned Entrepreneurs



Jonathan Klamkin, PhD Co-Founder & CEO



MIT LINCOLN LABORATORY



Shuji Nakamura, PhD Seed Investor











Thomas Laux VP of Business Development



UCSB



Steven DenBaars, PhD





Lee McCarthy, PhD Co-Founder & COO





Jeffrey Shealy, PhD, MBA Advisor & Seed Investor





David Field VP of Finance



Richard Ogawa, JD Advisor & Seed Investor





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Our Board of Directors





Jonathan Klamkin, PhD Co-Founder & CEO / Director









Palvi Mehta Director













Steven DenBaars, PhD Advisor & Seed Investor / Director



SLDLASER SORAA AKOUSTIS



John Paglia, PhD













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Summary:

Shares outstanding: 10,650,002 Post-Money Valuation at time of APO: "\$21.3M

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