

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549**

FORM 10-Q

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(D) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended December 31, 2023

or

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

For the transition period from _____ to _____

Commission File Number: 000-56218

AELUMA, INC.

(Exact Name of Registrant as Specified in Charter)

Delaware

(State or Other Jurisdiction
of Incorporation)

85-2807351

(I.R.S. Employer
Identification No.)

27 Castilian Drive
Goleta, California 93117

(Address of Principal Executive Offices)

(805) 351-2707

(Registrant's telephone number, including area code)

(Former name and address, if changed since last report)

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

Title of each class	Trading Symbol(s)	Name of exchange on which registered
None	-	-

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 No

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 and post 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	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/>	Smaller reporting company	<input checked="" type="checkbox"/>
		Emerging growth company	<input checked="" type="checkbox"/>

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 is a shell company (as defined by Rule 12b-2 of the Exchange Act). Yes No

As of February 9, 2024, there were 12,178,424 shares of the issuer's common stock, \$0.0001 par value per share, outstanding and no share of preferred stock, \$0.0001 par value per share, outstanding.

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PART I – FINANCIAL INFORMATION

Item 1. Financial Statements

Aeluma, Inc. and Subsidiary
Consolidated Balance Sheets

	December 31, 2023 (unaudited)	June 30, 2023
Assets		
Current assets:		
Cash and cash equivalents	\$ 2,423,054	\$ 5,071,690
Accounts receivable	192,992	189,239
Deferred compensation, current portion	27,925	53,034
Prepays and other current assets	155,647	19,943
Total current assets	<u>2,799,618</u>	<u>5,333,906</u>
Property and equipment:		
Equipment	1,373,946	1,209,656
Leasehold improvements	546,864	546,864
Accumulated depreciation	(430,728)	(300,445)
Property and equipment, net	<u>1,490,082</u>	<u>1,456,075</u>
Intangible assets	8,333	9,833
Right of use asset - facility	1,012,342	351,013
Deferred compensation, long term portion	6,171	-
Other assets	13,014	13,014
Total assets	<u><u>\$ 5,329,560</u></u>	<u><u>\$ 7,163,841</u></u>
Liabilities and stockholders' equity		
Current liabilities:		
Accounts payable	\$ 162,823	\$ 461,797
Accrued expenses and other current liabilities	163,900	133,092
Lease liability, current portion	124,145	162,210
Total current liabilities	<u>450,868</u>	<u>757,099</u>
Lease liability, long term portion	1,006,736	296,452
Total liabilities	<u><u>1,457,604</u></u>	<u><u>1,053,551</u></u>
Commitments and contingencies	-	-
Stockholders' equity:		
Preferred stock, \$0.0001 par value; 10,000,000 shares authorized, and none issued and outstanding at December 31, 2023 and June 30, 2023	-	-
Common stock, \$0.0001 par value; 50,000,000 shares authorized at December 31, 2023 and June 30, 2023, and 12,167,930 and 12,817,500 shares issued and outstanding at December 31, 2023 and June 30, 2023, respectively	1,217	1,282
Additional paid-in capital	15,543,634	15,171,074
Accumulated deficit	(11,672,895)	(9,062,066)
Total stockholders' equity	<u><u>3,871,956</u></u>	<u><u>6,110,290</u></u>
Total liabilities and stockholders' equity	<u><u>\$ 5,329,560</u></u>	<u><u>\$ 7,163,841</u></u>

The accompanying notes are an integral part of these financial statements

Aeluma, Inc. and Subsidiary
Consolidated Statements of Operations (unaudited)

	Three Months Ended December 31,		Six Months Ended December 31,	
	2023	2022	2023	2022
Revenue	\$ 262,992	\$ -	\$ 295,392	\$ -
Operating expenses:				
Cost of revenue	136,767	-	151,906	-
Research and development	651,099	767,784	1,485,968	1,604,260
General and administrative	603,925	387,110	1,269,028	1,117,321
Total expenses	<u>1,391,791</u>	<u>1,154,894</u>	<u>2,906,902</u>	<u>2,721,581</u>
Loss from operations	<u>(1,128,799)</u>	<u>(1,154,894)</u>	<u>(2,611,510)</u>	<u>(2,721,581)</u>
Other income:				
Sub-lease income & other income	-	74,165	-	110,516
Interest income	279	180	681	475
Total other income	<u>279</u>	<u>74,345</u>	<u>681</u>	<u>110,991</u>
Loss before income tax expense	<u>(1,128,520)</u>	<u>(1,080,549)</u>	<u>(2,610,829)</u>	<u>(2,610,590)</u>
Income tax expense	-	-	-	-
Net loss	<u>\$ (1,128,520)</u>	<u>\$ (1,080,549)</u>	<u>\$ (2,610,829)</u>	<u>\$ (2,610,590)</u>
Loss per share - basic and diluted	<u>\$ (0.09)</u>	<u>\$ (0.10)</u>	<u>\$ (0.21)</u>	<u>\$ (0.24)</u>
Weighted average common shares outstanding - basic and diluted	<u>12,167,930</u>	<u>10,795,872</u>	<u>12,418,579</u>	<u>10,722,937</u>

The accompanying notes are an integral part of these financial statements

Aeluma, Inc. and Subsidiary
Consolidated Statement of Stockholders' Equity (unaudited)

Three Months Ended December 31, 2023 and 2022

	Common Stock		Additional paid-in capital	Accumulated Deficit	Total Stockholders' Equity
	Shares	Amount			
Balance, October 1, 2023	12,167,930	\$ 1,217	\$ 15,407,715	\$ (10,544,375)	\$ 4,864,557
Stock-based compensation	-	-	135,919	-	135,919
Net loss	-	-	-	(1,128,520)	(1,128,520)
Balance, December 31, 2023	<u>12,167,930</u>	<u>\$ 1,217</u>	<u>\$ 15,543,634</u>	<u>\$ (11,672,895)</u>	<u>\$ 3,871,956</u>

	Common Stock		Additional paid-in capital	Accumulated Deficit	Total Stockholders' Equity
	Shares	Amount			
Balance, October 1, 2022	10,650,002	\$ 1,066	\$ 8,851,451	\$ (5,212,525)	\$ 3,639,992
Issuance of common stock, net of \$124,385 offering costs	517,000	51	1,426,564	-	1,426,615
Issuance of common stock for services	150,000	15	299,985	-	300,000
Stock-based compensation	-	-	107,361	-	107,361
Net loss	-	-	-	(1,080,549)	(1,080,549)
Balance, December 31, 2022	<u>11,317,002</u>	<u>\$ 1,132</u>	<u>\$ 10,685,361</u>	<u>\$ (6,293,074)</u>	<u>\$ 4,393,419</u>

Six Months Ended December 31, 2023 and 2022

	Common Stock		Additional paid-in capital	Accumulated Deficit	Total Stockholders' Equity
	Shares	Amount			
Balance, July 1, 2023	12,817,500	\$ 1,282	\$ 15,171,074	\$ (9,062,066)	\$ 6,110,290
Repurchase of common stock	(649,570)	(65)	(3,936)	-	(4,001)
Stock-based compensation	-	-	376,496	-	376,496
Net loss	-	-	-	(2,610,829)	(2,610,829)
Balance, December 31, 2023	<u>12,167,930</u>	<u>\$ 1,217</u>	<u>\$ 15,543,634</u>	<u>\$ (11,672,895)</u>	<u>\$ 3,871,956</u>

	Common Stock		Additional paid-in capital	Accumulated Deficit	Total Stockholders' Equity
	Shares	Amount			
Balance, July 1, 2022	10,650,002	\$ 1,066	\$ 8,781,361	\$ (3,682,484)	\$ 5,099,943
Issuance of common stock, net of \$124,385 offering costs	517,000	51	1,426,564	-	1,426,615
Issuance of common stock for services	150,000	15	299,985	-	300,000
Stock-based compensation	-	-	177,451	-	177,451
Net loss	-	-	-	(2,610,590)	(2,610,590)
Balance, December 31, 2022	<u>11,317,002</u>	<u>\$ 1,132</u>	<u>\$ 10,685,361</u>	<u>\$ (6,293,074)</u>	<u>\$ 4,393,419</u>

The accompanying notes are an integral part of these financial statements

Aeluma, Inc. and Subsidiary
Consolidated Statements of Cash Flows (unaudited)

	Six Months Ended December 31,	
	2023	2022
Operating activities:		
Net loss	\$ (2,610,829)	\$ (2,610,590)
Adjustments to reconcile net loss to net cash used in operating activities:		
Amortization of deferred compensation	18,938	491,954
Stock-based compensation expense	376,496	177,451
Depreciation and amortization expense	131,783	93,347
Change in accounts receivable	(3,753)	-
Change in prepaids and other current assets	(135,704)	(191,638)
Change in accounts payable	(298,974)	57,283
Change in accrued expenses and other current liabilities	41,698	(19,002)
Net cash used in operating activities	(2,480,345)	(2,001,195)
Investing activities:		
Purchase of equipment	(164,290)	(26,629)
Payment for leasehold improvements	-	(77,197)
Net cash used in investing activities	(164,290)	(103,826)
Financing activities:		
Repurchase of common stock	(4,001)	-
Proceeds from Private Placement, net of \$124,385 offering costs	-	1,426,615
Net cash (used in) provided by financing activities	(4,001)	1,426,615
Net change in cash	(2,648,636)	(678,406)
Cash, beginning of period	5,071,690	3,740,722
Cash, end of period	\$ 2,423,054	\$ 3,062,316

The accompanying notes are an integral part of these financial statements

Aeluma, Inc. and Subsidiary
Notes to Consolidated Financial Statements (unaudited)

Note 1 – The Company

Aeluma, Inc., headquartered in Goleta, California, is engaged in the research and development of infrared (IR) optical sensors to disrupt the market for IR sensors, and using its proprietary technology aims to produce a much higher performance alternative to today's low-cost sensors at much lower prices than would otherwise be possible. The focus of Aeluma, Inc. ("the Company") will be the image sensor market. Initial efforts hope to penetrate the 3D imaging and sensing (mobile and consumer, defense and aerospace, industrial, medical, auto) and LiDAR (robotic vehicles, advanced driver assistance systems vehicles (ADAS), topography, wind, industrial) markets.

On June 22, 2021, Biond Photonics, Inc., a privately held California corporation ("Biond Photonics") merged with and into our wholly owned subsidiary, Aeluma Operating Co., a corporation formed in the State of Delaware on June 22, 2021 ("Acquisition Sub"). Pursuant to this transaction (the "Merger"), Acquisition Sub was the surviving corporation and remained our wholly owned subsidiary, and all the outstanding stock of Biond Photonics was converted into shares of our common stock. As a result of the Merger, the Company acquired the business of Biond Photonics and continued the existing business operations of Biond Photonics as a public reporting company under the name Aeluma, Inc.

Going Concern

The Company incurred a net loss of \$2,610,829 and \$2,610,590 for the six months ended December 31, 2023 and 2022, respectively, and has accumulated deficit of \$11,672,895 at December 31, 2023. In addition, the Company is in the research and development stage and has generated limited revenue to date. In order to support its operations, the Company will require additional infusions of cash from the sale of equity instruments or the issuance of debt instruments, or the commencement of profitable revenue generating activities. If adequate funds are not available or are not available on acceptable terms, the Company's ability to fund its operations, develop or enhance its sensors in the future or respond to competitive pressures would be significantly limited. Such limitations could require the Company to curtail, suspend or discontinue parts of its business plan.

These conditions raise doubt about the Company's ability to continue as a going concern. The accompanying financial statements have been prepared in conformity with U.S. Generally Accepted Accounting Principles ("GAAP"), which contemplate continuation of the Company as a going concern. The financial statements do not include any adjustments relating to the recoverability and classification of recorded asset amounts or the amounts and classification of liabilities that could result from the outcome of this uncertainty. The financial statements do not include any adjustments that might be necessary should the Company be unable to continue as a going concern.

Note 2 – Summary of Significant Accounting Policies

Basis of Presentation

The accompanying consolidated financial statements have been presented in accordance with GAAP. The summary of significant accounting policies presented below is designed to assist in understanding the Company's financial statements. Such financial statements and accompanying notes are the representations of the Company's management, who is responsible for the Company's integrity and objectivity. This Quarterly Report on Form 10-Q for the quarter ended December 31, 2023, should be read in conjunction with our Annual Report on Form 10-K for the fiscal year ended June 30, 2023. The accompanying consolidated financial statements and footnotes have been condensed and therefore do not contain all disclosures required by GAAP. The interim financial data are unaudited; however, in the opinion of Aeluma, Inc., the interim data include all adjustments, consisting only of normal recurring adjustments, necessary for a fair presentation of the results for the interim periods. Results for interim periods are not necessarily indicative of those to be expected for the full year.

Use of Estimates and Assumptions

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. The Company bases its estimates and assumptions on current facts, historical experience and various other factors that it believes to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities. The actual results experienced by the Company may differ materially and adversely from the Company's estimates. To the extent there are material differences between the estimates and the actual results, future results of operations will be affected.

Cash and Cash Equivalents

The Company considers cash in banks, deposits in transit, and highly liquid debt instruments purchased with original maturities of three months or less to be cash and cash equivalents.

Concentration of Risk

The Company maintains its cash in bank deposit accounts which, at times, may exceed federally insured limits. The Company has not experienced any losses in such accounts. The Company's accounts are insured by the FDIC but at times may exceed federally insured limits.

Fair Value of Financial Instruments

As defined in Financial Accounting Standards Board ("FASB") ASC Topic No. 820, "Fair Value Measurements and Disclosures" ("ASC 820"), fair value is the price that would be received to sell an asset or paid to transfer the liability in an orderly transaction between market participants at the measurement date. In determining fair value, the Company uses the market or income approach. Based on this approach, the Company utilizes certain assumptions about the risk inherent in the inputs to the valuation technique. These inputs can be readily observable, market-corroborated or generally unobservable inputs. The Company utilizes valuation techniques that maximize the use of observable inputs and minimize the use of unobservable inputs. Based on the observability of the inputs used in the valuation techniques, the Company is required to provide the following information according to the fair value hierarchy. The fair value hierarchy ranks the quality and the reliability of the information used to determine fair values. As a basis for considering these assumptions, ASC 820 defines a three-tier value hierarchy that prioritizes the inputs used in the valuation methodologies in measuring fair value.

Level 1 – Unadjusted quoted prices in active, accessible market for identical assets or liabilities

Level 2 – Other inputs that are directly or indirectly observable in the marketplace

Level 3 – Unobservable inputs which are supported by little or no market activity

The fair value hierarchy also requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value.

The carrying values of the Company's cash, accounts receivable, accounts payable, accrued expenses and other current liabilities approximate their fair value due to the relatively short maturity of these items.

Property and Equipment

Property, equipment and leasehold improvements are reported at historical cost, net of accumulated depreciation and amortization. Depreciation is computed using the straight-line method over the estimated useful lives of the assets. Leasehold improvements are amortized over the less of the remaining lease term or the estimated useful life of the improvements. Repairs and maintenance to these assets are charged to expense as incurred; major improvements enhancing the function and/or the asset's useful life are capitalized. When items are sold or retired, the related cost and accumulated depreciation are removed from the accounts and any gains or losses arising from such transactions are recognized.

Intangible Assets

Intangible assets are associated with the Aeluma.com domain name and are amortized on a straight-line basis over 10 years.

Revenue Recognition

The Company follows a five-step approach for recognizing revenue, consisting of the following: (1) identifying the contract with a customer; (2) identifying the performance obligations in the contract; (3) determining the transaction price; (4) allocating the transaction price to the performance obligations in the contract; and (5) recognizing revenue when, or as, the entity satisfies a performance obligation. Sales and other taxes the Company collects concurrent with revenue-producing activities are excluded from revenue. Incidental items that are immaterial in the context of the contract are recognized as expense. The Company does not have any significant financing components associated with its revenue contracts, as payment is received within one year.

- Product sales: Revenue is currently generated from multiple customers for small-volume orders
- Government contracts: Revenue is principally generated under research and development contracts with agencies of the U.S. government or with prime contractors. These contracts may include cost reimbursement and fixed firm price terms.

The Company was awarded two government contracts of \$237,071 and \$239,998 for providing services and delivering materials during the second quarter of 2024. The awards are firm fixed contracts that shall be paid upon completion of performance and recognized as revenue for next 12 months.

For the three months ended December 31, 2023, the Company recognized its revenue of \$262,992 from government contracts. For the six months ended December 31, 2023, the company recognized its revenue of \$295,392, of which \$32,400 was from product sales for sampling purchases and \$262,992 was from government contracts. As of December 31, 2023, the aggregate amount to remaining performance obligations for the government contracts was \$435,463, which is expected to be recognized as revenue within next 12 months.

Loss Per Share

Basic loss per share is computed by dividing net loss available to common shareholders by the weighted average number of common shares outstanding during the period. Diluted loss per share is computed by dividing the net loss attributable to common stockholders by the sum of the weighted average number of common shares outstanding plus potential dilutive common shares outstanding during the period. Potential dilutive securities, comprised of stock warrants and stock options, are not reflected in diluted loss per share because such shares are anti-dilutive. Dilutive impact of potential common shares resulting from common stock equivalents is determined by applying the treasury stock method.

Stock-Based Compensation

The Company accounts for stock-based compensation arrangements in accordance with guidance issued by the FASB, which requires the measurement and recognition of compensation expense for all share-based payment awards made to employees, consultants, and directors based on estimated fair values.

The Company estimates the fair value of stock-based compensation awards on the date of grant using an option-pricing model. The value of the portion of the award that is ultimately expected to vest is recognized as an expense over the requisite service periods in the Company's consolidated statements of operations. The Company estimates the fair value of stock-based compensation awards using the Black-Scholes model. This model requires the Company to estimate the expected volatility and value of its common stock and the expected term of the stock options, all of which are highly complex and subjective variables. For employees and directors, the expected life was calculated based on the simplified method as described by the SEC Staff Accounting Bulletin No. 110, Share-Based Payment. For other service providers, the expected life was calculated using the contractual term of the award. The Company's estimate of expected volatility was based on the volatility of peers. The Company has selected a risk-free rate based on the implied yield available on U.S. Treasury securities with a maturity equivalent to the expected term of the options. The Company accounts for forfeitures upon occurrence.

Income Taxes

The Company is expected to have net operating loss carryforwards that it can use to offset a certain amount of taxable income in the future. The Company is currently analyzing the amount of loss carryforwards that will be available to reduce future taxable income. The resulting deferred tax assets will be offset by a valuation allowance due to the uncertainty of its realization. The primary difference between income tax expense attributable to continuing operations and the amount of income tax expense that would result from applying domestic federal statutory rates to income before income taxes relates to the recognition of a valuation allowance for deferred income tax assets.

The Company has adopted FASB ASC 740-10, “*Income Taxes*” which clarifies the accounting for uncertainty in income taxes recognized in an enterprise’s financial statements and prescribes a recognition threshold of more likely than not as a measurement process for financial statement recognition and measurement of a tax position taken or expected to be taken in a tax return. In making this assessment, a Company must determine whether it is more likely than not that a tax position will be sustained upon examination, based solely on the technical merits of the position and must assume that the tax position will be examined by taxing authorities. The Company’s policy is to include interest and penalties related to unrecognized tax benefits in income tax expense. Interest and penalties totaled \$0 for the periods presented. The Company’s net operating loss carryforwards are subject to IRS examination until they are fully utilized, and such tax years are closed.

The Company will file tax returns in the U.S. federal jurisdiction and the state of California. The Company’s federal and state return forms are subject to review by the taxing authorities. The Company is not currently under examination by any taxing authority, nor has it been notified of an impending examination.

Recent Accounting Pronouncements

The Company has evaluated all issued but not yet effective accounting pronouncements and determined that they are either immaterial or not relevant to the Company.

Note 3 – Stockholders’ Equity

Authorized Shares

The Company’s Articles of Incorporation authorize the issuance of two classes of shares of stock. The total number of shares which this corporation is authorized to issue is 50,000,000 shares of \$0.0001 par value common stock and 10,000,000 of \$0.0001 par value preferred stock. No preferred shares were issued as of December 31, 2023.

On December 12, 2022, the Company sold an aggregate of 517,000 shares of common stock in a private placement offering (the “Offering”) at a price of \$3.00 per share, with gross proceeds of \$1,551,000 (before deducting placement agent fees and expenses of \$124,385). On January 10, 2023, the Company held a second closing for an additional 214,667 shares of common stock, with gross proceeds of \$644,000 (before deducting placement agent fees and expenses of \$28,640). On March 31, 2023, the Company held a third closing for an additional 715,665 shares of common stock, with gross proceeds of \$2,147,000 (before deducting placement agent fees and expenses of \$117,830). On May 10, 2023, the Company held a fourth and final close for additional 570,166 shares of its common, with gross proceeds of \$1,710,500 (before deducting placement agent fees and expenses of \$140,160). Accordingly, the Company sold a total of 2,017,498 shares of common stock with a total gross proceeds of \$6,052,500 (before deducting total placement agent fees and expenses of \$411,015) in this private placement.

The Offering was exempt from registration under Section 4(a)(2) of the Securities Act and Rule 506 of Regulation D promulgated by the SEC thereunder. The common stock in the Offering was sold to “accredited investors,” as defined in Regulation D, and was conducted on a “reasonable best efforts” basis.

Issued and Vested Shares to Officers

On October 27, 2020, the Company issued 1,623,920 shares of common stock to Jonathan Klamkin, Director and Chief Executive Officer, and 1,623,920 shares of common stock to Lee McCarthy, Director, interim Chief Financial Officer and Chief Operations Officer, for an aggregate sum of \$10,000 each. Initially 20% or 324,784 shares vested on October 27, 2020, and the remaining 1,299,136 shares vest in equal amounts, monthly over the subsequent 4 years. The stock purchase agreement contains a repurchase option whereby unvested shares may be repurchased by the Company, at the Company’s option. At December 31, 2023, Jonathan Klamkin had 1,353,267 vested shares and 270,653 unvested shares, and Lee McCarthy had 974,350 vested shares. On November 17, 2022, Lee McCarthy left the Company and, on September 10, 2023, the Company exercised its option to purchase 649,570 unvested restricted shares Lee McCarthy held for a total consideration of \$4,001, the initial purchase price of these shares.

Registration Rights Agreement

The Company entered into a registration rights agreement that provides for certain liquidated damages upon the occurrence of a “Registration Event,” which is defined as the occurrence of any of the following events: (a) the Company fails to file with the Commission the Registration Statement on or before the Registration Filing Date; (b) the Registration Statement is not declared effective by the Commission on or before the Registration Effectiveness Date; (c) after the SEC Effective Date, the Registration Statement ceases for any reason to remain effective or the Holders of Registrable Securities covered thereby are otherwise not permitted to utilize the prospectus therein to resell the Registrable Securities covered thereby, except for Blackout Periods permitted herein; or (d) following the listing or inclusion for quotation on an Approved Market, the Registrable Securities, if issued and outstanding, are not listed or included for quotation on an Approved Market, or trading of the Common Stock is suspended or halted on the Approved Market, which at the time constitutes the principal markets for the Common Stock, for more than three (3) full, consecutive Trading Days (other than as a result of (A) actions or inactions of parties other than the Company or its affiliates or of the Approved Market not reasonably in the control of the Company, or (B) suspension or halt of substantially all trading in equity securities (including the Common Stock) on the Approved Market). The maximum amount of liquidated damages that may be paid by the Company shall be an amount equal to eight percent (8%) of the shares covered by the registration rights agreement. This filing covered 11,010,002 shares. The Company currently expects to satisfy all of its obligations under the Registration Agreement and does not expect to pay any damages pursuant to this agreement; therefore, no liability has been recorded.

Note 4 – Stock-Based Compensation

Restricted Stock Awards

In June 2021, the Company sold 723,008 shares of common stock to certain individuals in exchange for future management advisory services, for discounted prices price ranging from \$.0104 to \$.0195 per share. The shares are subject to restrictions that allow for repurchase of the shares by the Company due to a termination of the service agreement or other certain provisions. This repurchase right declines on a pro-rata basis over vesting periods (corresponding to the service period) ranging from 2-4 years. Related to these issuances, the Company has recorded deferred compensation of \$1,372,435 for the value of the shares in excess of the purchase price paid by the advisors. The deferred compensation was expensed as consulting expense in the consolidated statements of operation over the service period.

In March 2022, the Company signed an agreement to issue 150,000 shares of common stock valued at \$300,000 to a consultant for providing consulting services to the Company for eighteen months. Related to these issuances, the Company has recorded deferred compensation of \$300,000 which was expensed as consulting expense in the consolidated statements of operation over the eighteen months.

For the three months ended December 31, 2023 and 2022, \$6,981 and \$216,977, respectively, have been amortized in the consolidated statements of operations, and, for the six months ended December 31, 2023 and 2022, \$18,938 and \$491,954, respectively, have been amortized in the consolidated statements of operations. At December 31, 2023, \$34,096 of deferred compensation included in the balance sheets is expected to be expensed in next two years.

The following is a schedule summarizing restricted stock awards for the periods indicated:

	December 31, 2023			
	Three Months Ended		Six Months Ended	
	Number of Shares	Weighted Average Grant Date Fair Value per Price	Number of Shares	Weighted Average Grant Date Fair Value per Price
Beginning balance	21,619	\$ 1.90	75,293	\$ 1.97
Issued	-	-	-	-
Vested	(3,675)	1.90	(57,349)	1.99
Forfeited	-	-	-	-
Ending balance	<u>17,944</u>	<u>\$ 1.90</u>	<u>17,944</u>	<u>\$ 1.90</u>

	December 31, 2022			
	Three Months Ended		Six Months Ended	
	Number of Shares	Weighted Average Grant Date Fair Value per Price	Number of Shares	Weighted Average Grant Date Fair Value per Price
Beginning balance	257,724	\$ 1.90	344,426	\$ 1.90
Issued	150,000	2.00	150,000	2.00
Vested	(111,702)	1.90	(198,404)	1.90
Forfeited	-	-	-	-
Ending balance	296,022	\$ 1.95	296,022	\$ 1.95

Stock Options

During the three months ended December 31, 2022, the Company issued 161,000 options to purchase common stock to employees. The options have an exercise price of \$2.00 or \$2.10 and expire in 10 years with various vesting schedules from six months to 48 months, subject to the continued status as an employee to the Company through each vesting date.

During the three months ended June 30, 2023, the Company issued 163,000 options to purchase common stock to a consultant and employees. The options expire in 10 years and have an exercise price of \$2.60 with immediate vesting or \$3.00 with a vesting schedule of 48 months. Stock options granted to employees are subject to the continued status as an employee to the Company through each vesting date.

During the three months ended September 30, 2023, the Company issued 6,500 options to purchase common stock to consultants. The options expire in 10 years and have an exercise price that range from \$2.90 to \$3.90 with immediate vesting.

During the three months ended December 31, 2023, the Company issued 7,000 options to purchase common stock to a consultant. The options expire in 10 years and have an exercise price that range from \$2.50 to \$3.43 with immediate vesting.

The Company estimates the fair value of each option award using the Black-Scholes option-pricing model. The Company used the following assumptions for to estimate the fair value of stock options for the period presented:

	Six Months Ended December 31, 2023
Weighted-average fair value	\$ 2.48
Expected volatility	104.9% – 106.6 %
Expected term	5.0 years – 6.2 years
Dividend yield	0.00 %
Risk-free interest rate	3.94% – 4.92 %

For the three months ended December 31, 2023 and 2022, stock-based compensation expenses for options granted were \$135,919 and \$107,361, respectively. For the six months ended December 31, 2023 and 2022, stock-based compensation expenses for options granted were \$376,496 and \$177,451, respectively. Unrecognized stock-based compensation expense was \$942,146 and average expected recognition period was 1.5 years as of December 31, 2023.

The following is a schedule summarizing stock option activities for the periods presented:

Three Months Ended

	Number of Options	Weighted Average Exercise Price	Aggregate Intrinsic Value (1)
Outstanding at October 1, 2023	995,500	\$ 2.33	\$ 965,500
Granted	7,000	\$ 2.90	
Exercised	-	-	
Expired/forfeited	(41,375)	\$ 2.09	
Outstanding at December 31, 2023	961,125	\$ 2.35	\$ 566,485
Exercisable at December 31, 2023	481,560	\$ 2.20	\$ 350,521
Outstanding at October 1, 2022	697,750	\$ 2.00	\$ -
Granted	161,000	2.08	
Exercised	-	-	
Expired/forfeited	-	-	
Outstanding at December 31, 2022	858,750	\$ 2.01	\$ 846,250
Exercisable at December 31, 2022	193,875	\$ 2.00	\$ 193,875

(1) Represents the excess of the fair value on the last day of period (which was \$2.90 and \$3.00 as of December 31, 2023 and 2022, respectively) over the exercise price, multiplied by the number of options.

Six Months Ended

	Number of Options	Weighted Average Exercise Price	Aggregate Intrinsic Value (1)
Outstanding at July 1, 2023	1,034,000	\$ 2.31	\$ 639,775
Granted	13,500	\$ 3.11	
Exercised	-	-	
Expired/forfeited	(86,375)	\$ 2.04	
Outstanding at December 31, 2023	961,125	\$ 2.35	\$ 566,485
Exercisable at December 31, 2023	481,560	\$ 2.20	\$ 350,521
Outstanding at July 1, 2022	817,500	\$ 2.00	\$ -
Granted	161,000	2.08	
Exercised	-	-	
Expired/forfeited	(120,000)	2.00	
Outstanding at December 31, 2022	858,750	\$ 2.01	\$ 846,250
Exercisable at December 31, 2022	193,875	\$ 2.00	\$ 193,875

(1) Represents the excess of the fair value on the last day of period (which was \$2.90 and \$3.00 as of December 31, 2023 and 2022, respectively) over the exercise price, multiplied by the number of options.

Note 5 – Facility Operating Lease

On April 1, 2021, the Company commenced a 5-year operating lease for a facility in Santa Barbara, California with total lease payments of \$781,813. The Company determined the lease constitutes a Right of Use (ROU) asset and has recorded the present value of the lease payments as an asset and liability per ASC 842. The lease agreement waived the first three months of rent with payments commencing July 1, 2021. At the commencement of the lease, the net present value of the lease payments was \$767,553. In addition to these lease payments, the Company is also responsible for its shares of common area operating expenses and electricity. Such expenses are considered variable costs and are not included in the measurement of the lease liability. The lease agreement also provides for the option to extend the lease for two additional sixty-month periods. On July 1, 2023, one of the two options to extend was considered reasonably certain of exercise and the Company remeasured the ROU asset and lease liability. The Company recorded the net present value of \$1,189,606 for both the ROU asset and lease liability on July 1, 2023.

The following table presents maturities of operating lease liabilities on an undiscounted basis as of December 31, 2023:

For the year ending June 30,

Remainder of 2024	\$	83,058
2025		169,224
2026		173,454
2027		177,791
2028		182,235
Thereafter		524,526
Total		1,310,288
Less imputed interest		(179,407)
Total lease liability		1,130,881
Less: lease liability, current portion		124,145
Lease liability, long term portion	\$	1,006,736

The lease term and the discount rate for the lease at December 31, 2023 is 7.3 years and 4.00%, respectively. The total lease payments were \$49,344 and \$32,359 for the three months ended December 31, 2023 and 2022, respectively, and \$94,258 and \$64,719 for the six months ended December 31, 2023 and 2022, respectively. The variable costs for common area operating expenses and electricity were \$58,800, and \$70,016 for the three months ended December 31, 2023 and 2022, respectively and \$151,846 and \$173,811 for the six months ended December 31, 2023 and 2022.

In April 1, 2021, the Company subleased a portion of their facility. The sub-lease provided for base monthly rent of \$13,013 through May 31, 2021 and \$8,400 starting June 1, 2021 plus common area operating and utility costs. The sublease was amended again on May 17, 2022 to sublease a smaller portion of the property at a base rental rate of \$5,200 per month effective June 1, 2022. The Company recognized sub-lease income of \$74,165 and \$110,516, including reimbursement of common area operating and utility costs, for the three and six months ended December 31, 2022. The sub-lease ended in March 2023.

Note 6 – Warrants to Purchase Common Stock

In connection with the Offering held from December 2022 through May 2023, the Company issued warrants of 85,653 to purchase common stock to the Placement Agents. The warrants carry a term of 5 years and an exercise price of \$3.00.

The following warrants to purchase common stock were outstanding as of December 31, 2023:

Number of Shares	Exercise Price	Expiration Date
308,250	\$ 2.00	June 22, 2026
40,250	2.00	June 28, 2026
11,500	2.00	July 1, 2027
29,067	3.00	December 22, 2027
4,933	3.00	January 10, 2028
6,720	3.00	March 31, 2028
44,933	3.00	May 10, 2028
445,653		

ITEM 2. MANAGEMENT’S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Unless otherwise stated or the context otherwise indicates, references to “Aeluma,” the “Company,” “we,” “our,” “us,” or similar terms refer to Aeluma, Inc. and Subsidiary.

You should read the following discussion and analysis of our financial condition and results of operations together with our consolidated financial statements and the related notes and other financial information included in this report. Some of the information contained in this discussion and analysis or set forth elsewhere in this report, including information with respect to our plans and strategy for our business, includes forward-looking statements that involve risks and uncertainties. You should review the disclosure under the heading “Risk Factors” in other filings we make with the SEC for a discussion of important factors that could cause actual results to differ materially from the results described in or implied by the forward-looking statements contained in the following discussion and analysis. You should not place undue reliance on forward-looking statements as predictive of future results.

Overview

We develop novel optoelectronic devices for sensing and communications applications. Aeluma has pioneered a technique to manufacture devices using high performance compound semiconductor materials on large-diameter substrates that are commonly used to manufacture mass market microelectronics. This enables cost effective manufacturing of high-performance photodetector array circuits for imaging applications in mobile devices, as well as other technologies. Photodetector devices may be used as image sensors that generate an image by detecting light, in a manner similar to a digital camera taking pictures. Our devices may incorporate additional functionality for 3D image capture when integrated into various system architectures. This technology has the potential to enhance the performance and capability of camera image sensors, light detection and ranging (LiDAR), augmented reality/virtual reality (AR/VR), facial recognition, and other applications. Aeluma has acquired key manufacturing equipment, and has headquarters in Goleta, California with a manufacturing cleanroom to house this equipment.

Because we will leverage compound semiconductor materials, our devices may operate out to longer wavelengths, up to at least 1600 nm, which is advantageous for a number of reasons including eye safety. Beyond 1400 nm is considered eye safe at significantly higher optical power levels relative to that at shorter wavelengths. Therefore, for LiDAR sensing systems, the range (the detectable object distance) can be increased significantly. Operating at specific longer wavelengths (for example, near 1550 nm) also enables imaging both in low light (dark) conditions, as well as in direct sunlight. Therefore, images could be captured outdoors and in various conditions.

Private Placement

Between December 2022 and May 2023, we entered into subscription agreements (the “Subscription Agreement”) with certain accredited investors, pursuant to which we issued an aggregate of 2,017,498 shares of our common stock, par value \$0.0001 per share, at a per share purchase price of \$3.00, for aggregate gross proceeds of \$6,052,500 (the “Offering”).

Pursuant to the Offering, we paid a cash placement agent fee of \$389,200 and issued placement agent warrants to purchase up to 85,653 shares of common stock at an exercise price of \$3.00 per share. We also agreed to pay certain expenses of the placement agent in connection with the Offering.

In connection with the Subscription Agreement, we also entered into a Registration Rights Agreement with the Investors, pursuant to which we agreed to register all of the shares of common stock issued in the Offering, including the shares of common stock underlying the warrant issued to the placement agent in this registration statement.

The closings of the Offering were exempt from registration under Section 4(a)(2) of the Securities Act and Rule 506 of Regulation D promulgated by the SEC thereunder. The common stock in the Offering was sold to “accredited investors,” as defined in Regulation D, and was conducted on a “reasonable best efforts” basis.

Departure and Appointment of Directors and Officers

On November 8, 2022, Lee McCarthy provided notice of his resignation as our Chief Operating Officer effective November 17, 2022. Mr. McCarthy’s decision to resign was not the result of any disagreements with us on any matter related to the operations, policies, or practices of us.

On December 14, 2023, Palvi Mehta’s term on the board of directors expired. Mrs. Mehta’s decision to not run for re-election was not the result of any disagreements with us on any matter related to the operations, policies, or practices of us. The Board nominated Mr. Craig Ensley to fill the vacancy on the Board; on December 14, 2023, the shareholders voted to elect Mr. Ensley to the board.

Plan of Operations

We have been developing our materials and characterization capabilities at our headquarters in Goleta, California, in connection with the further development of our business and the implementation of our plan of operations. We have installed some key manufacturing equipment at our headquarters and will continue to develop relationships with manufacturing partners to carry out certain steps of our manufacturing processes externally. We have gained access to a rapid prototyping facility and are leveraging this access to fabricate early-stage prototypes. In the future, we intend to implement appropriate quality and manufacturing controls. Some equipment was procured previously, and other equipment is being procured through purchase orders with equipment vendors.

The primary sources of funding for equipment procurement and installation are the seed funding raised prior to becoming a public company and the funding raised from our financings. We have also leveraged funds to continue strengthening our intellectual property including patent applications, trademarks, and development of trade secrets and manufacturing process recipes. We will continue to develop our manufacturing and product development strategy by further engaging customers and strategic partners.

Limited Operating History

We cannot guarantee that the proceeds from the Offering will be sufficient to carry out all of our business plans. Our business is subject to risks inherent in growing an enterprise, including limited capital resources, risks inherent in the research and development process and possible rejection of our products in development.

If financing is not available on satisfactory terms, we may be unable to carry out all of our operations. Equity financing will result in dilution to existing stockholders.

Components of Results of Operations

Revenue

Our revenue currently consists of commercial product sales and government contracts.

Operating Expenses

The cost of revenue consists of costs of materials, as well as direct compensation and expenses incurred to provide deliverables that resulted in payment of our success fee and wafers delivered. We anticipate that our cost of revenue will vary substantially depending on the nature of products and/or services delivered in each customer engagement.

Research and development expenses consist primarily of compensation and related costs for personnel, including stock-based compensation and employee benefits, costs associated with design, fabrication, packaging and testing of our devices, and facility lease and utility expenses. We expense research and development expenses as incurred.

General and administrative expenses consist primarily of compensation and related costs for personnel, including stock-based compensation and employee benefits. In addition, general and administrative expenses include third-party consulting, legal, insurance, audit and accounting services.

Other Income

Other income, net of other expenses, consists primarily of income generated from subleasing a portion of our research and development facility and interest income.

Income Tax Expense

Income tax expense consists primarily of income taxes in certain state jurisdictions in which we conduct business.

Results of Operations

Six months ended December 31, 2023 compared to the six months ended December 31, 2022

Our results of operations for the six-month period ended December 31, 2023, as compared to the six-month period ended December 31, 2022, were as follows:

	Six Months Ended December 31,		Change
	2023	2022	'23 vs. '22
Revenue	\$ 295,392	\$ -	\$ 295,392
Operating expenses	(2,906,902)	(2,721,581)	(185,321)
Other income	681	110,991	(110,310)
Loss before income tax expense	(2,610,829)	(2,610,590)	(239)
Income tax expense	-	-	-
Net loss	\$ (2,610,829)	\$ (2,610,590)	\$ (239)

Revenue: Revenue increased 100% to \$295,392, of which \$32,400 was from product sales for sampling purchases and \$262,992 was from government contracts, for the six months ended December 31, 2023. During the six months ended December 31, 2022, we were pre-revenue and, accordingly recorded no revenues.

Operating expenses: Operating expense increased \$185,321 to \$2,906,902 for the six months ended December 31, 2023 from \$2,721,581 for the same period in 2022, due primarily to increased cost of revenue and stock-based compensation expenses, offset primarily by a reduction in consulting expenses.

Other income: Other income decreased \$110,310 to \$681 for the six months ended December 31, 2023 from \$110,991 for the same period in 2022. The decrease was due primarily to a \$105,516 decrease in sub-lease income as the sublease ended in March 2023.

Income tax expense: We did not record income tax expense for either of the six months ended December 31, 2023 and 2022.

Impact of COVID-19

With the exception of some lingering supply chain challenges, the residual effects of the COVID-19 pandemic did not have a significant impact on the Company's results of operations or financial condition for the six months ended December 31, 2023.

Capital Resources and Liquidity

Our financial statements have been presented on the basis that are a going concern, which contemplates the realization of assets and satisfaction of liabilities in the normal course of business. As presented in the financial statements, we incurred a net loss of \$2,610,829 and \$2,610,590 for the six months ended December 31, 2023 and 2022, respectively, and losses are expected to continue in the near term. The accumulated deficit was \$11,672,895 at December 31, 2023. We have been funding our operations through private loans and the sale of common stock in private placement transactions.

Management anticipates that significant additional expenditures will be necessary to develop and expand our business before significant positive operating cash flows can be achieved. Our ability to continue as a going concern is dependent upon our ability to raise additional capital and to ultimately achieve sustainable revenues and profitable operations. At December 31, 2023, we had \$2,423,054 of cash and cash equivalents. These funds are insufficient to complete our business plan and as a consequence, we will need to seek additional funds, primarily through the issuance of debt or equity securities for cash to operate our business. No assurance can be given that any future financing will be available or, if available, that it will be on terms that are satisfactory to us. Even if we are able to obtain additional financing, it may contain undue restrictions on our operations, in the case of debt financing or cause substantial dilution for our stockholders, in the case of equity financing.

Management has undertaken steps as part of a plan to improve operations with the goal of sustaining our operations for the next twelve months and beyond. These steps include (a) raising additional capital and/or obtaining financing; (b) controlling overhead and expenses; and (c) executing material sales or research contracts. There can be no assurance that we can successfully accomplish these steps and it is uncertain that we will achieve a profitable level of operations and obtain additional financing. There can be no assurance that any additional financing will be available to us on satisfactory terms and conditions, if at all. As of the date of this Report, we have not entered into any formal agreements regarding the above.

In the event we are unable to continue as a going concern, the Company may elect or be required to seek protection from its creditors by filing a voluntary petition in bankruptcy or may be subject to an involuntary petition in bankruptcy. To date, management has not considered this alternative, nor does management view it as a likely occurrence.

We had working capital of \$2,348,750 and \$4,576,807 at December 31, 2023 and June 30, 2023, respectively. Current assets decreased \$2,534,288 to \$2,799,618 at December 31, 2023 from \$5,333,906 at June 30, 2023, primarily due to a \$2,648,636 decrease in cash. Current liabilities decreased \$306,231 to \$450,868 at December 31, 2023 from \$757,099 at June 30, 2022, due primarily to decreases in accounts payable.

The following table shows a summary of our cash flows for the periods presented:

	Six Months Ended December 31,		Change '23 vs. '22
	2023	2022	
Net cash (used in) provided by:			
Operating activities	\$ (2,480,345)	\$ (2,001,195)	\$ (479,150)
Investing activities	(164,290)	(103,826)	(60,464)
Financing activities	(4,001)	1,426,615	(1,430,616)
(Decrease) increase in cash	\$ (2,648,636)	\$ (678,406)	\$ 1,970,230

Net cash used in our operating activities were \$2,480,345 and \$2,001,195 for the six months ended December 31, 2023 and 2022, respectively, due primarily to net losses of \$2,610,829 and \$2,610,590 for the six months ended December 31, 2023 and 2022, respectively.

Net cash used in our investing activities was \$164,290 and \$103,826 for the six months ended December 31, 2023 and 2022, respectively. Investing activities include purchase of equipment and payment for leasehold improvements.

Net cash used in our financing activities was \$4,001 for the six months ended December 31, 2023 and net cash provided by our financing activities was \$1,426,615 for the six months ended December 31, 2022. We paid \$4,001 to purchase Lee McCarthy's unvested restricted shares for the six months ended December 31, 2023 and received \$1,426,615 from Private Placements, net of \$124,385 offering cost.

Critical Accounting Policies

A summary of our other critical accounting policies is included in our Annual Report on Form 10-K for the year ended June 30, 2023. During the six months ended December 31, 2023, there were no significant changes in our critical accounting policies.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Not applicable.

ITEM 4. CONTROLS AND PROCEDURES

Inherent Limitations on Effectiveness of Controls

Our management, including our principal executive officer and principal financial officer, does not expect that our disclosure controls and procedures or our internal control over financial reporting will prevent or detect all errors and all fraud. A control system, no matter how well-designed and operated, can provide only reasonable, not absolute, assurance that the control system's objectives will be met. The design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Further, because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that misstatements due to error or fraud will not occur or that all control issues and instances of fraud, if any, have been detected.

Evaluation of Disclosure Controls and Procedures

Our disclosure controls and procedures are designed to ensure that information we are required to disclose in reports we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC's rules and forms, and that such information is accumulated and communicated to our management, including our principal executive officer and principal financial officer, as appropriate, to allow timely decisions regarding required disclosure. Management recognizes that any controls and procedures, no matter how well designed and operated, can provide only reasonable assurance.

Our management, with the participation of our chief executive officer and our chief financial officer, evaluated the effectiveness of our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Exchange Act) as of the end of the period covered by this Report. Based on this evaluation, management, including our chief executive officer and our chief financial officer, concluded that as of December 31, 2023, our disclosure controls and procedures were not effective. Our current staffing resources in our finance department are insufficient to support the complexity of our financial reporting requirements. As a result, we have had an inadequate level of precision, evidence or timeliness in the performance of review controls.

Changes in Internal Control over Financial Reporting

There were no changes in our internal control over financial reporting (as the term is defined in Rules 13a-15(f) and 15d-15(f) under the Exchange Act) during the six months ended December 31, 2023 that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II - OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS

From time to time, we may become a party to litigation or other legal proceedings that it considers to be a part of the ordinary course of its business. To the best of our knowledge, we are not currently involved in any legal proceedings that could reasonably be expected to have a material adverse effect on our business, prospects, financial condition or results of operations; however, we may become involved in material legal proceedings in the future.

ITEM 1A. RISK FACTORS

We are a smaller reporting company as defined by Rule 12b-2 of the Securities Exchange Act of 1934 and, as such, are not required to provide the information under this item.

ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

We did not sell any equity securities which were not registered under the Securities Act during the quarter ended December 31, 2023 that were not otherwise disclosed in our Quarterly Reports on Form 10-Q or our Current Reports on Form 8-K.

ITEM 3. DEFAULTS UPON SENIOR SECURITIES

None.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

ITEM 5. OTHER INFORMATION

None.

ITEM 6. EXHIBITS

Exhibit Index

Exhibit No.	Description
2.1	Agreement and Plan of Merger and Reorganization among Parc Investments, Inc., Aeluma Operating Co. and Biond Photonics, Inc. (incorporated by reference to the Current Report on Form 8-K filed on June 28, 2021)
3.1	Certificate of Merger relating to the merger of Aeluma Operating Co. with and into Biond Photonics, Inc., filed with the Secretary of State of the State of California on June 22, 2021 (incorporated by reference to the Current Report on Form 8-K filed on June 28, 2021)
3.2	Amended and Restated certificate of incorporation, filed with the Secretary of State of the State of Delaware on June 22, 2021 (incorporated by reference to the Current Report on Form 8-K filed on June 28, 2021)
3.3	Amended and Restated Bylaws (incorporated by reference to the Current Report on Form 8-K filed on June 28, 2021)
4.1	Form of Lock Up Agreement (incorporated by reference to the Current Report on Form 8-K filed on June 28, 2021)
4.2	Form of Placement Agent Warrant (incorporated by reference to the Current Report on Form 8-K filed on June 28, 2021)
10.2	Form of Post-Merger Indemnification Agreement (incorporated by reference to the Current Report on Form 8-K filed on June 28, 2021)
10.3	Form of Pre-Merger Indemnification Agreement (incorporated by reference to the Current Report on Form 8-K filed on June 28, 2021)
10.4	Form of Subscription Agreement, dated June 22, 2021, by and between the Company and the parties thereto (incorporated by reference to the Current Report on Form 8-K filed on June 28, 2021) (incorporated by reference to the Current Report on Form 8-K filed on June 28, 2021)
10.5	Registration Rights Agreement, dated June 22, 2021, by and between the Company and the parties thereto (incorporated by reference to the Current Report on Form 8-K filed on June 28, 2021)
10.6+	2021 Equity Incentive Plan and form of award agreements (incorporated by reference to the Current Report on Form 8-K filed on June 28, 2021)

10.7	Restricted Stock Purchase Agreement between Biond Photonics, Inc. and Mr. Klamkin (incorporated by reference to the Registration Statement on Form S-1/A filed on October 15, 2021)
10.8	Restricted Stock Purchase Agreement between Biond Photonics, Inc. and Mr. McCarthy (incorporated by reference to the Registration Statement on Form S-1/A filed on October 15, 2021)
10.9	Advisor Restricted Stock Purchase Agreement between Biond Photonics, Inc. and Mr. DenBaars, dated December 21, 2020 (incorporated by reference to the Registration Statement on Form S-1/A filed on October 15, 2021)
10.10	Advisor Restricted Stock Purchase Agreement between Biond Photonics, Inc. and Mr. DenBaars, dated June 10, 2021 (incorporated by reference to the Registration Statement on Form S-1/A filed on October 15, 2021)
10.11	Advisory Agreement between Biond Photonics, Inc. and Mr. DenBaars, dated December 31, 2020 (incorporated by reference to the Registration Statement on Form S-1/A filed on October 15, 2021)
10.12	Advisory Agreement between Biond Photonics, Inc. and Mr. DenBaars, dated June 10, 2021 (incorporated by reference to the Registration Statement on Form S-1/A filed on October 15, 2021)
10.13	Director Agreement by and between the Company and Palvi Mehta (incorporated by reference to the Current Report on Form 8-K filed on November 18, 2021)
10.14	Director Agreement by and between the Company and John Paglia (incorporated by reference to the Current Report on Form 8-K filed on November 30, 2021)
10.15	Subscription Agreement (incorporated by reference to the Current Report on Form 8-K filed on December 23, 2022)
10.16	Registration Rights Agreement (incorporated by reference to the Current Report on Form 8-K filed on December 23, 2022)
16.1	Reserved.
21.1	Subsidiaries of the Registrant (Incorporated by reference to the Current Report on Form 8-K filed on June 28, 2021)
31.1	Certification of Chief Executive Officer Pursuant to Section 302 of Sarbanes-Oxley Act of 2002
31.2	Certification of Principal Financial Officer Pursuant to Section 302 of Sarbanes-Oxley Act of 2002
32.1	Certification of Chief Executive Officer Pursuant to Section 906 of Sarbanes-Oxley Act of 2002
32.2	Certification of Principal Financial Officer Pursuant to Section 906 of Sarbanes-Oxley Act of 2002
101.INS	Inline XBRL Instance Document
101.SCH	Inline XBRL Taxonomy Extension Schema Document.
101.CAL	Inline XBRL Taxonomy Extension Calculation Linkbase Document.
101.DEF	Inline XBRL Taxonomy Extension Definition Linkbase Document.
101.LAB	Inline XBRL Taxonomy Extension Label Linkbase Document.
101.PRE	Inline XBRL Taxonomy Extension Presentation Linkbase Document.
104	Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101).

+ Indicates a management contract or compensatory plan, contract, or arrangement.

SIGNATURES

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

Date: February 12, 2024

Aeluma, Inc.

By: /s/ Jonathan Klamkin
Name: Jonathan Klamkin
Title: President, Chief Executive Officer and
Principal Financial Officer (Principal
Executive Officer and Principal Financial Officer)

**CERTIFICATION OF CHIEF EXECUTIVE OFFICER PURSUANT TO EXCHANGE ACT
RULE 13A-14(A) / 15D-14(A) AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Jonathan Klamkin, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q for the period ended December 31, 2023, of Aeluma, Inc.;
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 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 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 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:
 - 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 12, 2024

By: /s/ Jonathan Klamkin

Jonathan Klamkin
Chief Executive Officer
(Principal Executive Officer)

**CERTIFICATION OF CHIEF FINANCIAL OFFICER PURSUANT TO EXCHANGE ACT
RULE 13A-14(A) / 15D-14(A), AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY ACT OF 2002**

I, Jonathan Klamkin, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q for the period ended December 31, 2023, of Aeluma, Inc.;
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 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 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 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:
 - 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 12, 2024

By: /s/ Jonathan Klamkin

Jonathan Klamkin
Chief Financial Officer
(Principal Financial and Accounting Officer)

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

I, Jonathan Klamkin, certify, pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, 18 U.S.C. Section 1350, that:

1. The Quarterly Report on Form 10-Q of Aeluma, Inc. (the "Company") for the period ended December 31, 2023 (the "Report") fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (U.S.C. 78m or 78o(d)); and
2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: February 12, 2024

By: /s/ Jonathan Klamkin

Jonathan Klamkin
Chief Executive Officer
(Principal Executive Officer)

The foregoing certification is being furnished solely pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of section 1350, chapter 63 of title 18, United States Code) and is not being filed as part of a separate disclosure document.

**CERTIFICATION PURSUANT TO
18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

I, Jonathan Klamkin, certify, pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, 18 U.S.C. Section 1350, that:

1. The Quarterly Report on Form 10-Q of Aeluma, Inc. (the “Company”) for the period ended December 31, 2023 (the “Report”) fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934 (U.S.C. 78m or 78o(d)); and
2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: February 12, 2024

By: /s/ Jonathan Klamkin

Jonathan Klamkin
Chief Financial Officer
(Principal Financial and Accounting Officer)

The foregoing certification is being furnished solely pursuant to section 906 of the Sarbanes-Oxley Act of 2002 (subsections (a) and (b) of section 1350, chapter 63 of title 18, United States Code) and is not being filed as part of a separate disclosure document.