

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549

FORM 10-Q

(Mark One)

☒ QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the quarterly period ended March 31, 2024
OR

☐ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934
For the transition period from _____ to _____
Commission File Number: 001-41455

MAIA BIOTECHNOLOGY, INC.
(Exact Name of Registrant as Specified in its Charter)

Delaware
(State or other jurisdiction of
incorporation or organization)
444 West Lake Street, Suite 1700
Chicago, IL
(Address of principal executive offices)

83-1495913
(I.R.S. Employer
Identification No.)
60606
(Zip Code)

Registrant's telephone number, including area code: (312) 416-8592

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

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, \$0.0001 par value per share	MAIA	NYSE American

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 such files). Yes ☒ No ☐

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, 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 in Rule 12b-2 of the Exchange Act). Yes ☐ No ☒

As of May 14, 2024, the registrant had 21,837,149 shares of common stock, \$0.0001 par value per share, outstanding.

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NOTE ABOUT FORWARD-LOOKING STATEMENTS

This Quarterly Report on Form 10-Q contains forward-looking statements. All statements other than statements of historical facts contained in this report, including statements regarding our future results of operations and financial position, business strategy, product candidates, planned preclinical studies and clinical trials, research and development costs, regulatory approvals, timing and likelihood of success, as well as plans and objectives of management for future operations, are forward-looking statements. In some cases, forward-looking statements may be identified by words such as "believe," "may," "will," "estimate," "continue," "anticipate," "intend," "could," "would," "expect," "objective," "plan," "potential," "seek," "grow," "target," "if," and similar expressions intended to identify forward-looking statements. Our actual results may differ materially from those currently anticipated and expressed in such forward-looking statements as a result of a number of factors, including those which we discuss under "Risk Factors," elsewhere in this Quarterly Report on Form 10-Q and in our other filings with the Securities and Exchange Commission (the "SEC").

We undertake no obligation to revise or publicly release the results of any revision to these forward-looking statements, except as required by law. Given these risks and uncertainties, readers are cautioned not to place undue reliance on such forward-looking statements.

Unless the context indicates or otherwise requires, "the Company," "our Company," "we," "us," and "our" refer to MAIA Biotechnology, Inc., a Delaware corporation, and its consolidated subsidiaries.

PART I—FINANCIAL INFORMATION

Item 1. Financial Statements

**MAIA Biotechnology, Inc. and Subsidiaries
Condensed Consolidated Balance Sheets**

	March 31, 2024 (unaudited)	December 31, 2023
ASSETS		
Current assets:		
Cash	\$ 8,271,449	\$ 7,150,695
Prepaid expenses and other current assets	272,583	268,677
Australia research and development incentives receivable	155,969	144,680
Total current assets	8,700,001	7,564,052
Deferred offering costs	13,235	—
Other assets	2,800	2,800
Total assets	<u>\$ 8,716,036</u>	<u>\$ 7,566,852</u>
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable	\$ 1,872,502	\$ 1,638,546
Accrued expenses	3,035,265	3,298,607
Total current liabilities	4,907,767	4,937,153
Long term liabilities:		
Warrant liability	9,573,197	2,152,188
Total liabilities	14,480,964	7,089,341
Commitments and contingencies (Note 7)		
Stockholders' equity (deficit)		
Preferred stock, \$0.0001 par value, 30,000,000 shares authorized at March 31, 2024 and December 31, 2023, 0 shares issued and outstanding	—	—
Common stock, \$0.0001 par value, 70,000,000 shares authorized at March 31, 2024 and December 31, 2023, 20,581,469 and 16,986,254 shares issued and outstanding at March 31, 2024 and December 31, 2023, respectively	2,059	1,699
Additional paid-in capital	66,310,691	64,472,249
Accumulated deficit	(72,047,632)	(63,980,177)
Accumulated other comprehensive loss	(30,046)	(16,260)
Total stockholders' equity (deficit)	(5,764,928)	477,511
Total liabilities and stockholders' equity (deficit)	<u>\$ 8,716,036</u>	<u>\$ 7,566,852</u>

See the accompanying notes to the unaudited condensed consolidated financial statements.

MAIA Biotechnology, Inc. and Subsidiaries
Condensed Consolidated Statements of Operations
(Unaudited)

	Three Months Ended March 31,	
	2024	2023
Operating expenses:		
Research and development expenses	\$ 2,320,742	\$ 2,195,991
General and administrative expenses	1,628,134	1,988,259
Total operating expenses	3,948,876	4,184,250
Loss from operations	(3,948,876)	(4,184,250)
Other (expense) income:		
Interest expense	—	(5,147)
Interest income	44,118	336
Australian research and development incentives	18,601	51,243
Change in fair value of warrant liability	(4,181,298)	20,942
Other income, net	(4,118,579)	67,374
Net loss	(8,067,455)	(4,116,876)
Net loss attributable to MAIA Biotechnology, Inc. shareholders	<u>\$ (8,067,455)</u>	<u>\$ (4,116,876)</u>
Net loss per share		
Basic and diluted	<u>\$ (0.46)</u>	<u>\$ (0.38)</u>
Weighted average common shares outstanding basic and diluted	<u>17,601,407</u>	<u>10,977,054</u>

See the accompanying notes to the unaudited condensed consolidated financial statements.

MAIA Biotechnology, Inc. and Subsidiaries
Condensed Consolidated Statements of Comprehensive Loss
(Unaudited)

	Three Months Ended March 31,	
	2024	2023
Net loss	\$ (8,067,455)	\$ (4,116,876)
Foreign currency translation adjustment	(13,786)	(9,301)
Comprehensive loss	<u>\$ (8,081,241)</u>	<u>\$ (4,126,177)</u>

See the accompanying notes to the unaudited condensed consolidated financial statements.

MAIA Biotechnology, Inc. and Subsidiaries
Condensed Consolidated Statements of Changes in Stockholders' Equity (Deficit) (Unaudited)

For the Three Months Ended March 31,
2024

	Preferred Stock		Common Stock		Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive Income (Loss)	Total Stockholders' Equity (Deficit)
	Shares	Amount	Shares	Amount				
Balance at December 31, 2023	—	\$ —	16,986,254	\$ 1,699	\$ 64,472,249	\$ (63,980,177)	\$ (16,260)	\$ 477,511
Issuance of restricted stock	—	—	12,500	1	11,499	—	—	11,500
Stock-based compensation expense	—	—	—	—	349,965	—	—	349,965
Issuance of common shares in connection with At-The-Market financing, net of \$179,628 of issuance costs	—	—	507,754	51	565,572	—	—	565,623
Issuance of common shares in connection with the Private Placement Offering #1, net of \$50,000 of issuance costs	—	—	2,496,318	250	590,161	—	—	590,411
Issuance of common shares in connection with the Private Placement Offering #2, net of \$47,261 of issuance costs	—	—	578,643	58	90,560	—	—	90,618
Issuance of warrants in connection with the Private Placement Offering #1	—	—	—	—	230,685	—	—	230,685
Foreign currency translation adjustment	—	—	—	—	—	—	(13,786)	(13,786)
Net loss	—	—	—	—	—	(8,067,455)	—	(8,067,455)
Balance at March 31, 2024	<u>—</u>	<u>\$ —</u>	<u>20,581,469</u>	<u>\$ 2,059</u>	<u>\$ 66,310,691</u>	<u>\$ (72,047,632)</u>	<u>\$ (30,046)</u>	<u>\$ (5,764,928)</u>

See the accompanying notes to the unaudited condensed consolidated financial statements.

MAIA Biotechnology, Inc. and Subsidiaries
Condensed Consolidated Statements of Changes in Stockholders' Equity (Unaudited)

For the Three Months Ended March 31,
2023

	Preferred Stock		Common Stock		Additional Paid-In Capital	Accumulated Deficit	Accumulated Other Comprehensive Income (Loss)	Total Stockholders' Equity
	Shares	Amount	Shares	Amount				
Balance at December 31, 2022	—	\$ —	10,955,904	\$ 1,096	\$ 52,729,942	\$ (44,207,272)	\$ (15,973)	\$ 8,507,793
Issuance of restricted stock	—	—	40,500	4	164,066	—	—	164,070
Stock-based compensation expense	—	—	—	—	537,522	—	—	537,522
Foreign currency translation adjustment	—	—	—	—	—	—	(9,301)	(9,301)
Net loss	—	—	—	—	—	(4,116,876)	—	(4,116,876)
Balance at March 31, 2023	<u>—</u>	<u>\$ —</u>	<u>10,996,404</u>	<u>\$ 1,100</u>	<u>\$ 53,431,530</u>	<u>\$ (48,324,148)</u>	<u>(25,274)</u>	<u>\$ 5,083,208</u>

See the accompanying notes to the unaudited condensed consolidated financial statements.

MAIA Biotechnology, Inc. and Subsidiaries
Condensed Consolidated Statements of Cash Flows
(Unaudited)

	Three Months Ended March 31,	
	2024	2023
Cash flows from operating activities:		
Net loss	\$ (8,067,455)	\$ (4,116,876)
Adjustments to reconcile net loss to net cash used in operating activities:		
Stock-based compensation	349,965	537,522
Consulting expense for restricted shares issued	11,500	164,070
Change in fair value of warrant liability	4,181,298	(20,942)
Change in operating assets and liabilities:		
Prepaid expenses and other current assets	67,091	153,775
Australia research and development incentives receivable	(18,602)	(51,243)
Other receivables	(71,856)	—
Accounts payable	237,018	(35,163)
Accrued expenses	(275,759)	8,208
Net cash used in operating activities	<u>(3,586,800)</u>	<u>(3,360,649)</u>
Cash flows from financing activities:		
Proceeds from sale of common stock in private placement offering #1	2,920,696	—
Proceeds from sale of common stock in private placement offering #2	1,327,990	—
Proceeds from At-The-Market offering	745,251	—
Payment of offering transactions costs	(276,889)	—
Net cash provided by financing activities	4,717,048	—
Net effect of foreign currency exchange on cash	(9,494)	(3,966)
Net increase (decrease) in cash	1,120,754	(3,364,615)
Cash at beginning of period	7,150,695	10,950,927
Cash at end of period	\$ 8,271,449	\$ 7,586,312
Supplemental disclosure of cash flow information:		
Warrants issued in connection with private placement offering #1	\$ 2,049,600	—
Warrants issued in connection with private placement offering #2	<u>\$ 1,190,111</u>	<u>—</u>

See the accompanying notes to the unaudited condensed consolidated financial statements.

MAIA Biotechnology, Inc. and Subsidiaries
Notes to Unaudited Condensed Consolidated Financial Statements

1. NATURE OF BUSINESS AND SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Description of Business, Organization, and Principles of Consolidation

MAIA Biotechnology, Inc. and Subsidiaries (collectively, "the Company") is a biopharmaceutical company that develops oncology drug candidates to improve and extend the lives of people with cancer. MAIA Biotechnology, Inc. ("MAIA") was incorporated in the state of Delaware on August 3, 2018. These consolidated financial statements include the accounts of MAIA and its subsidiaries, as follows:

- THIO Therapeutics, Inc. ("THIO"), incorporated in the state of Delaware on November 26, 2018. On August 13, 2021, MAIA and THIO completed a plan of reorganization in which THIO merged with and into MAIA. Prior to the merger, MAIA owned 93.3% of the outstanding shares of THIO common stock, which were canceled in connection with the merger. The remaining 6.7% minority stockholder of THIO received one share of MAIA common stock for each share of THIO common stock owned prior to the merger.
- DGD Pharmaceuticals Corporation ("DGD"), incorporated in the state of Delaware of April 1, 2019. In July 2020, the board of directors approved the dissolution of DGD, and shortly thereafter also approved a special dividend/return of capital to its stockholders. On August 13, 2021, DGD was officially dissolved via a filing of a Certificate of Dissolution with the state of Delaware.
- MAIA Drug Development Corporation ("MAIA DD") incorporated in the state of Texas on September 10, 2018, and was 100% owned by MAIA, until MAIA DD was legally dissolved in July 2021. The operations of MAIA DD were nominal.
- In July 2021, the Company established a wholly owned Australian subsidiary, MAIA Biotechnology Australia Pty Ltd, to conduct various pre-clinical and clinical activities for the development of the Company's product candidates.
- In April 2022, the Company established a wholly owned Romanian subsidiary, MAIA Biotechnology Romania S.R.L., to conduct various pre-clinical and clinical activities for the development of the Company's product candidates.

Going Concern Considerations

The accompanying unaudited consolidated financial statements have been prepared on a going concern basis, which contemplates the realization of assets and the satisfaction of liabilities in the normal course of business. The consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

To date, the Company has incurred recurring losses, negative cash flow from operations and has accumulated a deficit of \$72,047,632 from the Company's inception through March 31, 2024. As of March 31, 2024, the Company had \$8,271,449 in cash and cash equivalents and working capital of approximately \$3,792,234.

To meet the Company's future working capital needs, the Company will need to raise additional equity or enter into debt financing. While the Company has historically been able to raise additional capital through issuance of equity and/or debt financing, and while the Company has implemented a plan to control its expenses in order to satisfy its obligations due within one year from the date of issuance of these financial statements, the Company cannot guarantee that it will be able to raise additional equity, raise debt, or contain expenses. Accordingly, there is substantial doubt about the Company's ability to continue as a going concern within one year after these financial statements are issued.

Basis of Presentation**Basis of presentation and consolidation principles**

The accompanying condensed consolidated financial statements have been prepared by the Company pursuant to the rules and regulations of the Securities and Exchange Commission ("SEC"). Certain information and footnote disclosures normally included in annual financial statements prepared in accordance with U.S. generally accepted accounting principles ("GAAP") have been condensed or omitted pursuant to such rules and regulations. The condensed consolidated financial statements may not include all disclosures required by GAAP; however, the Company believes that the disclosures are adequate to make the information presented not misleading. These unaudited condensed financial statements should be read in conjunction with the audited financial statements and the notes thereto for the fiscal year ended December 31, 2023 included in the Company's Annual Report on Form 10-K filed on March 21, 2024. The condensed consolidated balance sheet as of December 31, 2023 was derived from the audited financial statements.

In the opinion of management, all adjustments, consisting of only normal recurring adjustments that are necessary to present fairly the financial position, results of operations, and cash flows for the interim periods, have been made. The results of operations for the interim periods are not necessarily indicative of the operating results for the full fiscal year or any future periods.

The unaudited interim condensed consolidated financial statements include the accounts of the Company's wholly owned subsidiaries. All transactions and accounts between and among its subsidiaries have been eliminated. All adjustments and disclosures necessary for a fair presentation of these unaudited interim condensed consolidated financial statements have been included.

Segment Information

Operating segments are defined as components of an enterprise about which separate discrete information is available for evaluation by the chief operating decision-maker in deciding how to allocate resources and assess performance. The Company and the Company's chief operating decision-maker, the Company's Chief Executive Officer, view the Company's operations and manage its business as a single operating segment, which is the business of discovering and developing products for the treatment of immunotherapies for cancer.

Use of Estimates

The preparation of the Company's unaudited interim condensed consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. The most significant estimates in the Company's financial statements relate to the valuation of common stock, stock options and warrants, the embedded features in convertible notes, and accruals for outsourced research and development activities. These estimates and assumptions are based on current facts, historical experience and various other factors believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities and the recording of expenses that are not readily apparent from other sources. Actual results may differ materially and adversely from these estimates. To the extent there are material differences between the estimates and actual results, the Company's future results of operations will be affected.

Certain Risks and Uncertainties

The Company's activities are subject to significant risks and uncertainties including the risk of failure to secure additional funding to properly execute the Company's business plan. The Company is subject to risks that are common to companies in the pharmaceutical industry, including, but not limited to, development by the Company or its competitors of new technological innovations, dependence on key personnel, reliance on third party manufacturers, protection of proprietary technology, and compliance with regulatory requirements.

Foreign Currency Translation

The financial statements of the Company's foreign subsidiaries, where the local currency is the functional currency, are translated using exchange rates in effect as of the applicable balance sheet dates for assets and liabilities and average exchange rates during the period for results of operations. The resulting foreign currency translation adjustment is included in stockholders' equity as accumulated other comprehensive loss.

Off-Balance Sheet Risk and Concentrations of Credit Risk

The Company has no significant off-balance sheet risks, such as foreign exchange contracts, option contracts, or other foreign hedging arrangements. Cash accounts are maintained at financial institutions that potentially subject the Company to concentrations of credit risk. At March 31, 2024 and December 31, 2023, substantially all of the Company's cash was deposited in accounts at two financial institutions. The Company maintains its cash deposits, which at times may exceed the federally insured limits, with a reputable financial institution, and accordingly, the Company believes such funds are subject to minimal credit risk.

Cash and Cash Equivalents

The Company considers all highly liquid investments purchased with maturities of three months or less to be cash equivalents. As of March 31, 2024 and December 31, 2023 cash includes cash in a depository bank accounts. The Company had no cash equivalents as of March 31, 2024 or December 31, 2023.

Fair Value Measurements

The Company is required to disclose information on all assets and liabilities reported at fair value that enables an assessment of the inputs used in determining the reported fair values. Accounting Standards Codification (ASC) Topic 820, *Fair Value Measurements and Disclosures* ("ASC 820") establishes a hierarchy of inputs used in measuring fair value that maximizes the use of observable inputs and minimizes the use of unobservable inputs by requiring that the observable inputs be used when available.

Under this accounting guidance, fair value is defined as an exit price, representing the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. As such, fair value is a market-based measurement that should be determined based on assumptions that market participants would use in pricing an asset or a liability. To increase the comparability of fair value measures, the following hierarchy prioritizes the inputs to valuation methodologies used to measure fair value:

- Level 1 - Valuations based on quoted prices for identical assets and liabilities in active markets.
- Level 2 - Valuations based on observable inputs other than quoted prices included in Level 1, such as quoted prices for similar assets and liabilities in active markets, quoted prices for identical or similar assets and liabilities in markets that are not active, or other inputs that are observable or can be corroborated by observable market data.
- Level 3 - Valuations based on unobservable inputs reflecting our own assumptions, consistent with reasonably available assumptions made by other market participants. These valuations require significant judgment.

Fair value measurements discussed herein are based upon certain market assumptions and pertinent information available to management as of and during the three months ended March 31, 2024, and as of and during the twelve months ended December 31, 2023. The carrying amount of accounts payable approximated fair value as they are short term in nature. The fair value of warrants issued for services is estimated based on the Black-Scholes-Merton model during the three months ended March 31, 2024. The estimated fair value of warrants issued to underwriters represented Level 3 measurements.

General and Administrative

General and administrative expenses primarily consist of costs for corporate functions, including payroll and related expenses, rent, outside legal expenses, insurance costs, and other general and administrative costs.

Research and Development

The Company's research and development expenses consist primarily of costs associated with the Company's clinical trials, salaries, payroll taxes, employee benefits, and stock-based compensation charges for those individuals involved in ongoing research and development efforts. Research and development costs are expensed as incurred. Advance payments for goods and services that will be used in future research and development activities are expensed when the activity has been performed or when the goods have been received.

As part of the process of preparing the condensed consolidated financial statements, the Company is required to estimate its accrued expenses. This process involves reviewing quotations and contracts, identifying services that have been performed on the Company's behalf and estimating the level of service performed and the associated cost incurred for the service when the Company has not yet been invoiced or otherwise notified of the actual cost. The majority of the Company's service providers invoice the Company monthly in arrears for services performed or when contractual milestones are met. The Company makes estimates of its accrued expenses as of each balance sheet date in our consolidated financial statements based on facts and circumstances known to the Company at that time. The Company periodically confirms the accuracy of its estimates with the service providers and makes adjustments if necessary. The estimates in the Company's accrued research and development expenses are related to expenses incurred with respect to CROs, CMOs and other vendors in connection with research and development and manufacturing activities.

The Company bases its expense related to CROs and CMOs on its estimates of the services received and efforts expended pursuant to quotations and contracts with such vendors that conduct research and development and manufacturing activities on the Company's behalf. The financial terms of these agreements are subject to negotiation, vary from contract to contract and may result in uneven payment flows. There may be instances in which payments made to the Company's vendors will exceed the level of services provided and result in a prepayment of the applicable research and development or manufacturing expense. In accruing service fees, the Company estimates the time period over which services will be performed and the level of effort to be expended in each period. If the actual timing of the performance of services or the level of effort varies from its estimate, the Company adjusts the accrual or prepaid expense accordingly. Although the Company does not expect its estimates to be materially different from amounts actually incurred, the Company's understanding of the status and timing of services performed relative to the actual status and timing of services performed may vary and could result in us reporting amounts that are too high or too low in any particular period. There have been no material changes in estimates for the periods presented.

Research and Development Incentive

The Company recognizes other income from Australian research and development incentives when there is reasonable assurance that the income will be received, the relevant expenditure has been incurred, and the consideration can be reliably measured. The research and development incentive is one of the key elements of the Australian Government's support for Australia's innovation system and is supported by legislative law primarily in the form of the Australian Income Tax Assessment Act 1997, as long as eligibility criteria are met. Under the program, a percentage of eligible research and development expenses incurred by the Company through its subsidiary in Australia are reimbursed.

Management has assessed the Company's research and development activities and expenditures to determine which activities and expenditures are likely to be eligible under the research and development incentive regime described above. At each period end, management estimates the refundable tax offset available to the Company based on available information at the time and it is included in Australian research and development incentives in the condensed consolidated statements of operations.

Derivative Financial Instruments

The Company does not use derivative instruments to hedge exposures to cash flow, market, or foreign currency risks. The Company evaluates all of its financial instruments, to determine if such instruments contain features that qualify as embedded derivatives.

Embedded derivatives must be separately measured from the host contract if all the requirements for bifurcation are met. The assessment of the conditions surrounding the bifurcation of embedded derivatives depends on the nature of the host contract. Bifurcated embedded derivatives are recognized at fair value, with changes in fair value recognized in the statement of operations each period.

Stock-Based Compensation

The Company records share-based compensation for awards granted to employees, non-employees, and to members of the board of directors based on the grant date fair value of awards issued, and the expense is recorded on a straight-line basis over the requisite service period. Forfeitures are recognized when they occur.

The Company uses the Black-Scholes-Merton option pricing model to determine the fair value of stock options and warrants. The use of the Black-Scholes-Merton option-pricing model requires management to make assumptions with respect to the expected term of the option, the expected volatility of the common stock consistent with the expected life of the option, risk-free interest rates and expected dividend yields of the common stock. The Company has concluded that its historical share option exercise experience does not provide a reasonable basis upon which to estimate expected term. Therefore, the expected term was determined according to the simplified method, which is the average of the vesting tranche dates and the contractual term. Due to the lack of company specific historical and implied volatility data, the estimate of expected volatility is primarily based on the historical volatility of a group of similar companies that are publicly traded. For these analyses, companies with comparable characteristics are selected, including enterprise value and position within the industry, and with historical share price information sufficient to meet the expected life of the share-based awards. The Company computes the historical volatility data using the daily closing prices for the selected companies' shares during the equivalent period of the calculated expected term of its share-based awards. The risk-free interest rate is determined by reference to U.S. Treasury zero-coupon issues with remaining maturities similar to the expected term of the options. The Company has not paid, and does not anticipate paying, cash dividends on shares of its common stock.

Prior to the initial public offering (IPO) in order to estimate the fair value of shares of the common stock, the Company's board of directors considered, among other things, sales of common stock to third party investors and valuations of common stock, business, financial condition and results of operations, including related industry trends affecting operations; the likelihood of achieving a liquidity event, such as an initial public offering, or sale, given prevailing market conditions; the lack of marketability of our common stock; the market performance of comparable publicly traded companies; and U.S. and global economic and capital market conditions.

During the three months ended March 31, 2024, 12,500 restricted shares of common stock were issued for consulting services. There were no issuances of restricted stock awards during the three months ended March 31, 2023. The fair value of restricted stock awards is based on the common stock price.

All stock-based compensation costs are recorded in general and administrative or research and development costs in the condensed consolidated statements of operations based upon the underlying individual's role at the Company.

Common Stock Warrants

The Company accounts for common stock warrants as either equity instruments or as liabilities in accordance with ASC 480, *Distinguishing Liabilities from Equity* ("ASC 480"), depending on the specific terms of the warrant agreement.

When warrants are issued for services provided by non-employees, under ASC 718, *Compensation – Stock Compensation* (“ASC 718”), the warrants shall be classified as a liability if 1) the underlying shares are classified as liabilities or 2) the entity can be required under any circumstances to settle the warrant by transferring cash or other assets. The measurement of equity-classified non-employee share-based payments is generally fixed on the grant date and are considered compensatory, as defined by ASC 718.

Income Taxes

Income taxes are recorded in accordance with ASC 740, *Income Taxes* (“ASC 740”), which provides for deferred taxes using an asset and liability approach. The Company recognizes deferred tax assets and liabilities for the expected future tax consequences of events that have been included in the financial statements or tax returns. Deferred tax assets and liabilities are determined based on the difference between the financial statement and tax basis of assets and liabilities using enacted tax rates in effect for the year in which the differences are expected to reverse. Valuation allowances are provided, if based upon the weight of available evidence, it is more likely than not that some or all of the deferred tax assets will not be realized. The Company accounts for uncertain tax positions in accordance with the provisions of ASC 740. When uncertain tax positions exist, the Company recognizes the tax benefit of tax positions to the extent that the benefit would more likely than not be realized assuming examination by the taxing authority. The determination as to whether the tax benefit will more likely than not be realized is based upon the technical merits of the tax position as well as consideration of the available facts and circumstances. The Company recognizes any interest and penalties accrued related to unrecognized tax benefits as income tax expense.

Deferred Offering Costs

Deferred offering costs are included in other assets and consist of legal, accounting, underwriting fees and other costs. There are no deferred offering costs as of the December 31, 2023 balance sheet date. Deferred offering costs incurred through the March 31, 2024 balance sheet are directly related to at-the-market offering and will be charged to additional paid-in capital upon the completion of the offering.

Net Loss Per Share

Basic loss per share of common stock is computed by dividing net loss attributable to common stockholders by the weighted average number of shares of common stock outstanding for the period. Diluted net loss per share is calculated by adjusting the weighted-average number of shares outstanding for the dilutive effect of common stock equivalents outstanding for the period, determined using the treasury-stock method. Diluted loss per share excludes, when applicable, the potential impact of stock options, unvested shares of restricted stock awards, and common stock warrants because their effect would be anti-dilutive due to our net loss. Gains on warrant liabilities are only considered dilutive when the average market price of the common stock during the period exceeds the exercise price of the warrants. Since the Company had a net loss in each of the periods presented, basic and diluted net loss per common share are the same.

The following table summarizes the Company's potentially dilutive securities, in common share equivalents, which have been excluded from the calculation of dilutive loss per share as their effect would be anti-dilutive:

	Three Months Ended March 31,	
	2024	2023
Shares issuable upon exercise of stock options	8,060,978	7,217,915
Shares issuable upon exercise of warrants	6,272,508	796,985

Recent Accounting Standards

In November 2023, the FASB issued ASU No. 2023-07, *Segment Reporting – Improvements to Reportable Segment Disclosures*, which provides updates to qualitative and quantitative reportable segment disclosure requirements, including enhanced disclosures about significant segment expenses and increased interim disclosure requirements, among others. ASU No. 2023-07 is effective for fiscal years beginning after December 15, 2023, and interim periods in fiscal years beginning after December 15, 2024. Early adoption is permitted, and the amendments should be

applied retrospectively. We do not expect the amendments in this ASU to have a material impact on our consolidated financial statements.

In December 2023, the FASB issued ASU No. 2023-09, Improvements to Income Tax Disclosures, which requires disclosure of disaggregated income taxes paid, prescribes standard categories for the components of the effective tax rate reconciliation, and modifies other income tax-related disclosures. ASU No. 2023-09 is effective for fiscal years beginning after December 15, 2024 and allows for adoption on a prospective basis, with a retrospective option. Early adoption is permitted. We do not expect the amendments in this ASU to have a material impact on our consolidated financial statements.

From time to time, new accounting pronouncements are issued by the Financial Accounting Standards Board or other standard setting bodies and are adopted by the Company as of the specified effective date. Unless otherwise discussed, the Company believes that the impact of recently issued standards that are not yet effective will not have a material impact on its financial position or results of operations upon adoption.

Reclassification of Prior Year Presentation

Certain prior year amounts have been reclassified for consistency with the current year presentation. These reclassifications had no effect on the reported statement of cash flows.

2. RELATED PARTY TRANSACTIONS

10b5-1 Plan

Certain of our directors and executive officers previously adopted written plans, known as Rule 10b5-1 plans, in which they have contracted with a broker to buy shares of our common stock on a periodic basis. Each of these plans have expired as of the date of this Report. Our directors and executive officers may also adopt future Rule 10b5-1 plans in which they contract with a broker to buy or sell shares of our common stock on a periodic basis. Under a Rule 10b5-1 plan, a broker executes trades pursuant to parameters established by the director or officer when entering into the plan, without further direction from the director or officer. The director or officer may amend or terminate the plan in limited circumstances. Our directors and executive officers may also buy or sell additional shares of our common stock outside of a Rule 10b5-1 plan when they are not in possession of material, nonpublic information.

Private Placement

The following Company directors participated in the March 2024 private placement as follows: (i) Stan Smith purchased 170,940 shares of our common stock and warrants to purchase up to 170,940 shares of our common stock for an aggregate purchase price of \$200,000; (ii) Louie Ngar Yee purchased 170,940 shares of our common stock and warrants to purchase up to 170,940 shares of our common stock for an aggregate purchase price of \$200,000; (iii) Cristian Luput purchased 69,282 shares of our common stock and warrants to purchase up to 69,282 shares of our common stock for an aggregate purchase price of \$81,060; (iv) Steven Chaouki purchased 34,641 shares of our common stock and warrants to purchase up to 34,641 shares of our common stock for an aggregate purchase price of \$40,530 and (v) Ramiro Guerrero purchased 6,928 shares of our common stock and warrants to purchase up to 6,928 shares of our common stock for an aggregate purchase price of \$8,106.

3. ACCRUED EXPENSES

As of March 31, 2024 and December 31, 2023 accrued expenses consisted of the following:

	March 31, 2024	December 31, 2023
Bonus	\$ 1,006,187	\$ 786,999
Professional fees	175,910	77,942
Research and development costs	989,847	998,838
Accrued severance	603,635	824,435
Other	259,686	610,393
Total accrued expenses	<u>\$ 3,035,265</u>	<u>\$ 3,298,607</u>

4. FAIR VALUE OF FINANCIAL LIABILITIES

Derivative Liability

Financial liabilities consisting of warrant liabilities measured at fair value on a recurring basis are summarized below. The fair value of the warrant liabilities recorded are as follows:

	Total	Fair value at December 31, 2023		
		Level 1	Level 2	Level 3
Liabilities:				
Warrant liability	2,152,188	—	—	2,152,188
Total liabilities	<u>\$ 2,152,188</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 2,152,188</u>

	Total	Fair value at March 31, 2024		
		Level 1	Level 2	Level 3
Liabilities:				
Warrant liability	9,573,197	—	—	9,573,197
Total liabilities	<u>\$ 9,573,197</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 9,573,197</u>

The table below provides a summary of the changes in fair value of the warrant liabilities measured on a recurring basis using significant unobservable inputs (Level 3):

	Three Months Ended March 31,	
	2024	2023
Warrant liabilities:		
Balance, beginning of period	\$ 2,152,188	\$ 245,341
Issuance of warrants	3,239,711	—
Loss (Gain) on fair value of warrant liability	4,181,298	(20,942)
Balance, end of period	<u>\$ 9,573,197</u>	<u>\$ 224,399</u>

5. STOCKHOLDERS' EQUITY

Upon the closing of the Company's initial public offering, the Company's shareholders agreement terminated pursuant to its terms. In connection with the closing of the Company's initial public offering, the Company amended and restated its Amended and Restated Certificate of Incorporation (the "Amended and Restated Certificate of Incorporation") and amended and restated its Bylaws (the "Amended and Restated Bylaws"). The Amended and Restated Certificate of Incorporation was filed with the Secretary of State of the State of Delaware on August 1, 2022 and became effective on that date, and among other things, increased the authorized number of common stock to 70,000,000 shares and decreased the authorized number of preferred stock to 30,000,000 shares.

At-the-Market Equity Offering

On February 14, 2024, the Company entered into an At The Market Offering Agreement (the "ATM Agreement") with H.C. Wainwright & Co., LLC ("Wainwright"), to sell shares of its common stock, par value \$0.0001 per share, (the "Shares") having an aggregate sales price of up to \$1,445,000, from time to time, through an "at the market offering" program under which Wainwright will act as sales agent. The sales, if any, of the Shares made under the ATM Agreement will be made by any method permitted by law deemed to be an "at the market offering" as defined in Rule 415 promulgated under the Securities Act of 1933, as amended. The Company will pay Wainwright a commission rate equal to 3.0% of the aggregate gross proceeds from each sale of Shares. As of March 24, 2024, the Company has sold 507,754 shares of common stock at an average price of \$1.47 per share, resulting in aggregate gross proceeds of approximately \$745,251. The Company anticipates that the at-the-market offering will continue throughout the next reporting period.

Effective March 25, 2024, the Company filed a prospectus supplement to amend, supplement and supersede certain information contained in the earlier prospectus and prospectus supplement, which increased the number of Shares the Company may offer and sell under the ATM Agreement to an aggregate offering price of up to \$4,950,000 from time to time.

Share Repurchase Program

On September 28, 2023, the Company announced that its board of directors approved a share repurchase program pursuant to which the Company may repurchase up to \$800,000 of the Company's issued and outstanding shares of common stock, par value \$0.0001 per share, through September 2024. The Company expects to fund repurchases by using cash on hand and expected cash flow to be generated in the future. As of March 31, 2024 no shares have been repurchased.

Private Placement

On March 14, 2024, the Company issued and sold 2,496,318 shares of its common stock and warrants to purchase 2,496,318 shares of its common stock in a private placement to certain accredited investors and Company directors pursuant to securities purchase agreements dated March 25, 2024 at a price per share of \$1.17 for which the Company received gross proceeds of approximately \$2.92 million. The warrants are exercisable at a price per share of \$1.30, are exercisable commencing six months following issuance, and have a term of five year from the initial exercise date. The securities sold to Company directors participating in the private placement were issued pursuant to the Company's 2021 Equity Incentive Plan.

On March 28, 2024, the Company issued and sold (i) 578,643 shares of its common stock, and (ii) warrants to purchase up to 578,643 shares of its common stock, to accredited investors pursuant to securities purchase agreements dated March 25, 2024 at a price per share of \$2.295 for which the Company received gross proceeds of approximately \$1.33 million. The warrants are exercisable at a price per share of \$2.55, are exercisable commencing six months following issuance, and have a term of five years from the initial exercise date.

MAIA Biotechnology, Inc. Restricted Stock Awards

During the three months ended March 31, 2023, the company expensed \$164,070 to consulting for investor relations related to the grant of 40,500 restricted shares of common stock. There were no unvested restricted shares as of March 31, 2023.

During the three months ended March 31, 2024, the company expensed \$11,500 to consulting expense related to the grant of 12,500 restricted shares of common stock. There are no unvested restricted shares as of March 31, 2024.

MAIA Stock Warrants

Concurrently with the closing of the Company's initial public offering, the Company issued warrants to purchase an aggregate of up to 100,000 shares of its common stock to the representative or its designees, at an exercise price of \$6.25 per share (the "Representative's Warrants"). The Representative's Warrants are exercisable beginning on January 23, 2023, and expire on July 27, 2027, pursuant to the terms and conditions of the Representative's Warrants. On August 3, concurrently with the full exercise of the Underwriter's over-allotment option, the Company issued additional Representative's Warrants to purchase an aggregate of up to 15,000 shares of its common stock to the Representative or its designees on the same terms. The Representative's Warrants are not indexed to the Company's own stock and therefore meet the definition of a derivative liability. The Representative's Warrants are liability classified instruments and were initially recorded as \$343,735, which was the value determined using the Black-Scholes-Merton method using a term of five years, risk free interest rate of 2.82% and volatility of 77.5%. As of March 31, 2024 and December 31, 2023 the Company remeasured the warrant liability resulting in a value of \$112,878 and \$40,211 respectively. The loss on remeasurement of the warrant liability in the amount of \$72,666 was included in other expense for the three months ended March 31, 2024.

On November 9, 2023, the Company issued warrants to purchase an aggregate of up to 239,234 shares of its common stock to Alumni Capital LP, at an exercise price of \$2.09 per share. The warrants were exercisable beginning on November 10, 2023, and expire on November 10, 2027, pursuant to the terms and conditions of the warrants. The warrants are not indexed to the Company's own stock and therefore meet the definition of a derivative liability. On November 13, 2023, 131,578 warrant shares vested in accordance with the terms. The warrants are liability classified instruments and were initially recorded as \$84,251, which was the value determined using the Black-Scholes-Merton method using a term of 3.87 years, risk free interest rate of 3.93% and volatility of 90.0%. Laidlaw & Company Ltd. acted as the financial advisor to the Company in connection with the warrant and were paid a cash fee of \$13,750. As of March 31, 2024 and December 31, 2023 the Company remeasured the warrant liability resulting in a value of \$199,902 and \$84,251 respectively. The loss on remeasurement of the warrant liability in the amount of \$115,651 is included in other expense for the three months ended March 31, 2024.

On November 17, 2023, the Company issued warrants concurrently with the Company's registered direct offering to purchase an aggregate of up to 2,424,243 shares of its common stock to the investors in the registered direct offering, at an exercise price of \$1.86 per share (subject to customary adjustments as set forth in the Warrants), are exercisable six months following issuance and will have a term of five years from the initial exercise date. The Warrants contain customary anti-dilution adjustments to the exercise price, including for share splits, share dividends, rights offerings and pro rata distributions. The warrants are not indexed to the Company's own stock and therefore meet the definition of a derivative liability. The warrants are liability classified instruments and were initially recorded as \$1,903,915, which was the value determined using the Black-Scholes-Merton method using a term of 5.38 years, risk free interest rate of 3.85% and volatility of 90.0%. As of March 31, 2024 and December 31, 2023 the Company remeasured the warrant liability resulting in a value of \$4,211,746 and \$1,903,915 respectively. The loss on remeasurement of the warrant liability in the amount of \$2,307,832 is included in other expense for the three months ended March 31, 2024.

On November 17, 2023, concurrently with the closing of the Company's registered direct offering, the Company issued warrants to purchase an aggregate of 169,697 shares of its common stock to the Representative or its designees, at an exercise price of \$2.06 per share. The Representative's Warrants are exercisable beginning November 15, 2023, and expire on November 15, 2028, pursuant to the terms and conditions of the Representative's Warrants. The warrants are not indexed to the Company's own stock and therefore meet the definition of a derivative liability. The warrants are liability classified instruments and were initially recorded as \$123,811, which was determined using the Black-Scholes-Merton method using a term of 4.88 years, risk free interest rate of 3.84% and volatility of 90.0%. As of March 31, 2024 and December 31, 2023 the Company remeasured the warrant liability resulting in a value of \$280,770 and \$123,811 respectively. The loss on remeasurement of the warrant liability in the amount of \$156,959 is included in other expense for the three months ended March 31, 2024.

Concurrently with the closing of the Company's private placement on March 14, 2024, the Company issued warrants to purchase an aggregate of up to 2,496,318 shares of its common stock to the investors in the private placement, at an exercise price of \$1.30 per share are exercisable beginning on September 14, 2024, and expire on September 14, 2029. The warrants issued were divided into two groups, warrants issued to outside investors and warrants issued to directors. The warrants issued to outside investors of 2,043,587 are not indexed to the Company's own stock and therefore meet the definition of a derivative liability. The warrants are liability classified instruments and were initially recorded as \$2,049,600, which was determined using the Black-Scholes-Merton method using a term of 5.5 years, risk free interest rate of 4.20% and volatility of 95.0%. As of March 31, 2024, the Company

remeasured the warrant liability resulting in a value of \$3,793,921. The loss on remeasurement of the warrant liability in the amount of \$1,744,321 is included in other expense for the three months ended March 31, 2024. The warrants issued to directors of 452,731 are equity classified instruments and the value of these warrants determined using the Black-Scholes-Merton method was \$230,685 using a term of 5.5 years, risk free interest rate of 4.20% and volatility of 95%.

Concurrently with the closing of the Company's private placement offering on March 28, 2024, the Company issued warrants to purchase an aggregate of up to 578,643 shares of its common stock to the investors in the private placement at an exercise price of \$2.55 per share. The warrants are exercisable beginning on September 28, 2024, and expire on September 28, 2029. The warrants are not indexed to the Company's own stock and therefore meet the definition of a derivative liability. The warrants are liability classified instruments and were initially recorded as \$1,190,111, which was determined using the Black-Scholes-Merton method using a term of 5.5 years, risk free interest rate of 4.20% and volatility of 95.0%. As of March 31, 2024, the Company remeasured the warrant liability resulting in a value of \$973,980. The gain on remeasurement of the warrant liability in the amount of \$216,131 is included in other expense for the three months ended March 31, 2024.

	Warrants Outstanding	Weighted Average Exercise Price	Weighted Average Remaining Contractual Term in Years
Balance at January 1, 2024	3,650,278	\$ 2.82	5.00
Issued	2,622,230	1.58	
Exercised	—	—	
Expired	—	—	
Balance at March 31, 2024	6,272,508	\$ 2.30	2.76

MAIA Biotechnology, Inc. Stock Award Plans

In 2018, the Company adopted the MAIA Biotechnology, Inc. 2018 Stock Option Plan (the "MAIA 2018 Plan"). MAIA's board of directors administers the MAIA Plan for the purposes of attracting, retaining, and motivating key employees, directors, and consultants of MAIA. The terms of the MAIA 2018 Plan continue to govern the 1,924,500 options outstanding in the plan as of March 31, 2024.

In 2020, the Company adopted the MAIA Biotechnology, Inc. Amended and Restated 2020 Equity Incentive Plan (the "MAIA 2020 Plan"), also administered by the board of directors. The MAIA 2020 Plan permitted awards to take the form of stock options, restricted stock and restricted stock units. The terms of the MAIA 2020 Plan continue to govern the 3,532,125 options outstanding in the plan as of March 31, 2024. There are no shares reserved for future issuance in the MAIA 2018 Plan or the MAIA 2020 Plan.

On August 1, 2022 the Company approved the MAIA Biotechnology, Inc. 2021 Equity Incentive Plan (the "MAIA 2021 Plan") with 1,909,518 shares of common stock reserved for issuance. On May 25, 2023 the MAIA 2021 Plan was amended to include an automatic increase to the plan in the amount equal to ten percent (10%) of the total number of shares of stock outstanding on a fully diluted basis on December 31 of the preceding calendar year (the "Increase Date"); provided that, the board of directors may act prior to any Increase Date to provide that there will be no increase for such year or that the increase for such year will be a lesser number of shares of stock. The amount reserved for issuance under the MAIA 2021 Plan increased by 1,956,993 based on the fully diluted shares outstanding as of December 31, 2022. The amount reserved for issuance under the MAIA 2021 Plan increased by 2,838,668 based on the fully diluted shares outstanding as of December 31, 2023. As of March 31, 2024 there are 4,098,243 shares of common stock available for future issuance under the MAIA 2021 Plan and 2,604,353 options are outstanding in the MAIA 2021 Plan.

Stock options are to be granted with an exercise price which is at least equal to the stock's estimated fair value at the date of grant, and with a contractual term of no more than ten years from the date of grant. In the case of an option granted to a 10% stockholder, the exercise price shall be generally no less than 110% of the fair market value per

share on the date of grant, and the contractual term shall be seven years. Outstanding options awarded under the MAIA 2021 Plan may, but need not, vest and therefore become exercisable in periodic installments that may, but need not, be equal. The option may be subject to other terms and conditions as to the time or times when it may be exercised (which may be based on performance or other criteria) as the board of directors may deem appropriate. Unexercised options are canceled ninety days after termination of an employee, director, founder, or consultant. Unexercised options are canceled immediately if an employee, director, founder, or consultant is terminated for cause; under certain other circumstances, the period to cancellation may differ as described in the respective plan documents. Certain clauses in the Plans also govern the Company's exercise repurchase rights and various other features of awards granted under the plans.

As of March 31, 2024, only stock options have been awarded pursuant to the MAIA stock award plans.

The following table summarizes the activity and information regarding MAIA's outstanding and exercisable options for the three months ended March 31, 2024:

	Options Outstanding	Weighted Average Exercise Price	Weighted Average Remaining Contractual Term in Years	Aggregate Intrinsic Value
Balance at January 1, 2024	7,750,152	\$ 2.53	7.29	
Granted	984,455	1.42		
Exercised	—	—		
Cancelled/forfeited	(673,629)	3.58		
Balance at March 31, 2024	8,060,978	\$ 2.31	7.14	2,588,003
Options exercisable at March 31, 2024	6,649,017	\$ 2.29	6.84	2,237,777

The value of option grants is calculated using the Black-Scholes-Merton option pricing model with the following assumptions for options granted during the three months ended March 31, 2024 and 2023:

	2024	2023
<i>Risk-free interest rate</i>	3.98% - 4.49%	3.64% - 4.23%
Expected term (in years)	5 - 6.08	5 - 6.08
Expected volatility	95% - 152.5%	99.6% - 101.1%
Expected dividend yield	-	—

The weighted-average grant date fair value of stock options issued during the three months ended March 31, 2024 and 2023 was \$1.42 and \$3.27, respectively. As of March 31, 2024, the total unrecognized compensation related to unvested employee and non-employee stock option awards granted was \$2,080,928, which the Company expects to recognize over a weighted average period of approximately 3.2 years.

Stock based compensation related to the Company's stock plans are as follows:

	Three Months Ended March 31,	
	2024	2023
General and administrative	\$ 230,989	\$ 256,677
Research and development	118,976	280,845
Total stock-based compensation	\$ 349,965	\$ 537,522

6.COMMITMENTS AND CONTINGENCIES

Legal

From time to time, the Company is involved in legal actions and claims arising in the normal course of business. Management believes there are no matters which will have a material adverse effect on the Company's financial position, operations or cash flows.

Patent Licensing, Sponsored Research, and Patent & Technology Agreements

THIO – In November 2018 and as amended in December 2020, the Company entered into a Global Patent Licensing Agreement ("PLA") titled "Patent and Technology License Agreement AGT. NO. L2264 – MAIA Biotechnology" with the University of Texas Southwestern ("UTSW") to license patent families for a specific compound ("THIO") from UTSW to MAIA. The agreement, as amended, has a term of 20 years. The agreement requires MAIA to reimburse UTSW for agreed-upon expenses related to THIO. The agreement requires certain payments upon assignment of the license to a third party as well as upon reaching specific milestones, ranging between \$1,000,000 and \$50,000,000, not to exceed a combined milestone payment total of \$112,000,000. As of March 31, 2024, no assignment has occurred and none of the defined milestones have been completed and therefore no payments are due to UTSW related to the milestones. The agreement requires royalties of 2-4% (depending on THIO reaching specified sales levels in the respective jurisdictions) royalty payments on net sales up to \$1,000,000,000, and 2.5-5% on net sales above \$1,000,000,000.

Also in December 2020, the Company entered into a second license agreement with UTSW titled "Patent and Technology License Agreement AGT. NO. L3648 — MAIA Biotechnology" pursuant to which UTSW is licensing an additional compound to MAIA. The agreement has a term of 20 years and requires the Company to reimburse UTSW for certain agreed-upon expenses. The agreement requires certain payments upon assignment of the license to a third party as well as upon reaching specific milestones, ranging between \$1,000,000 and \$50,000,000, not to exceed a combined milestone payment total of \$112,000,000. As of March 31, 2024, no assignment has occurred and none of the defined milestones have been completed and therefore no payments are due to UTSW related to the milestones.

The agreement requires royalties of 2-4% (depending on THIO reaching specified sales levels in the respective jurisdictions) royalty payments on net sales up to \$1,000,000,000, and 2.5-5% on net sales above \$1,000,000,000.

The Company will also pay UTSW running royalties on a yearly basis as a percentage of Net Sales of the Company or its sublicensee. There are single digit royalty rates for licensed products and licensed services covered by a Valid Claim (as defined in the agreement) and dependent on whether Net Sales are greater than or less than/equal to \$1,000,000,000, with Net Sales above that amount commanding a slightly higher percentage. In each case, the royalty percentage is lower before patent issuance in each jurisdiction. In the event that the licensed product or licensed service is not covered by a Valid Claim, the running royalty rates are reduced by fifty percent (50%). The royalty obligations continue on a country-by-country basis until the later of expiration of the last Valid Claim in each country or ten (10) years after the First Commercial Sale (as defined in UTSW2 Agreement) in each country.

Regeneron – In February 2021, the Company reached an agreement with Regeneron Pharmaceuticals, Inc. ("Regeneron") to perform one clinical trial for the treatment of patients with Non-Small Cell Lung Cancer (NSCLC) involving a Regeneron drug candidate that utilizes one of the Company's compounds/agents. The Company is responsible for all costs of the study with Regeneron supplying their drug cemiplimab representing a cost savings for the Company, the first phase of which is expected to take approximately two years. The overall term of the agreement is for five years unless earlier terminated for certain reasons as defined in the agreement. Either party may terminate a study plan in the event that patient screening for the clinical study does not commence within twelve (12) months after (a) the Effective Date, with respect to the initial study, or (b) the execution of the applicable study plan, with respect to each other study. If either party terminates a study plan, the Company shall reimburse Regeneron for the Regeneron product it received in connection with such study plan based on the actual out-of-pocket cost to Regeneron of such Regeneron product. As of March 31, 2024 neither party has terminated the agreement.

7. INCOME TAXES

The Company provides for income taxes using the asset and liability approach. Deferred tax assets and liabilities are recorded based on the differences between the financial statement and tax bases of assets and liabilities and the tax rates in effect when these differences are expected to reverse. Deferred tax assets are reduced by a valuation allowance if, based on the weight of available evidence, it is more likely than not that some or all of the deferred tax assets will not be realized. The issuance of shares in connection with the Company's IPO, as well as prior share issuances, may result in limitations on the utilization of the Company's net operating loss carryforwards under IRS section 382. As of March 31, 2024, and December 31, 2023, the Company had a full valuation allowance against its deferred tax assets.

For the three months ended March 31, 2024 and 2023, the Company recorded zero income tax expense. No tax benefit has been recorded in relation to the pre-tax losses for the three months ended March 31, 2024, due to full valuation allowance to offset any deferred tax assets.

8. SUBSEQUENT EVENTS

Issuance of Options

From April 1 to May 14, 2024, the Company issued 648,263 options at a weighted exercise price of \$2.94 to employees and consultants.

On May 10, 2024, the Company issued 4,678 shares of Common Stock upon exercise of an existing warrant on a net-exercise basis. These shares were issued pursuant to the exemption from registration provided by Section 4(a)(2) and/or 3(a)(9) of the Securities Act of 1933, as amended.

At-The-Market Offering with H.C. Wainwright

On February 14, 2024, the Company entered into an At The Market Offering Agreement (the "ATM Agreement") with H.C. Wainwright & Co., LLC ("Wainwright"), to sell shares of its common stock, par value \$0.0001 per share, (the "Shares") having an aggregate sales price of up to \$1,445,000, from time to time, through an "at the market offering" program under which Wainwright will act as sales agent. The sales, if any, of the Shares made under the ATM Agreement will be made by any method permitted by law deemed to be an "at the market offering" as defined in Rule 415 promulgated under the Securities Act of 1933, as amended. The Company will pay Wainwright a commission rate equal to 3.0% of the aggregate gross proceeds from each sale of Shares. Effective March 25, 2024, the Company filed a prospectus supplement to amend, supplement and supersede certain information contained in the earlier prospectus and prospectus supplement, which increased the number of Shares the Company may offer and sell under the ATM Agreement to an aggregate offering price of up to \$4,950,000 from time to time. Since April 1, 2024, the Company has sold 748,808 shares of its common stock at an average price of \$3.03 per share, resulting in aggregate gross proceeds of approximately \$2,265,162. The Company anticipates that the at-the-market offering will continue throughout the next reporting period.

Private Placement

On April 25, 2024, the Company issued and sold 494,096 shares of its common stock and warrants to purchase 494,096 shares of its common stock in a private placement to certain accredited investors and Company directors pursuant to securities purchase agreements dated April 22, 2024 at a price per share of \$2.034 for which the Company received gross proceeds of approximately \$1.0 million. The warrants are exercisable at a price per share of \$2.26, are exercisable commencing six months following issuance, and have a term of five year from the initial exercise date. The securities sold to Company directors participating in the private placement were issued pursuant to the Company's 2021 Equity Incentive Plan.

Related Party Participation in Private Placement

The following Company directors participated in the aforementioned April 2024 private placement as follows: (i) Stan Smith purchased 147,492 shares of common stock and warrants to purchase up to 147,492 shares of common

stock for an aggregate purchase price of approximately \$300,000; (ii) Louie Ngar Yee purchased 19,665 shares of common stock and warrants to purchase up to 19,665 shares of common stock for an aggregate purchase price of approximately \$40,000.

Amendments to Common Stock Purchase Warrants

On May 11, 2024, the Company entered into amendments to certain of those common stock purchase warrants originally issued on March 14, 2024 with an exercise price of \$1.30 per share with holders of such warrants to purchase 1,794,882 shares of common stock (out of warrants to purchase an aggregate of 2,043,587 shares of common stock issued to non-affiliated investors on March 14, 2024) to amend and restate the "Fundamental Transaction" adjustment provision in such warrants to facilitate such warrants being accounted for on the Company's balance sheet as equity in future periods as opposed to a warrant liability.

On May 11, 2024, the Company entered into amendments to certain of those common stock purchase warrants originally issued on March 28, 2024 with an exercise price of \$2.55 per share with holders of such warrants to purchase 349,886 shares of common stock (out of warrants to purchase an aggregate of 578,643 shares of common stock issued to non-affiliated investors on March 28, 2024) to amend and restate the "Fundamental Transaction" adjustment provision in such warrants to facilitate such warrants being accounted for on the Company's balance sheet as equity in future periods as opposed to a warrant liability.

On May 11, 2024, the Company entered into amendments to certain of those common stock purchase warrants originally issued on April 25, 2024 with an exercise price of \$2.26 per share with holders of such warrants to purchase 263,027 shares of common stock (out of warrants to purchase an aggregate of 326,939 shares of common stock issued to non-affiliated investors on April 25, 2024) to amend and restate the "Fundamental Transaction" adjustment provision in such warrants to facilitate such warrants being accounted for on the Company's balance sheet as equity in future periods as opposed to a warrant liability.

Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations.

You should read the following discussion together with our financial statements and the related notes included elsewhere in this Quarterly Report on Form 10-Q. This discussion contains forward-looking statements that are based on our current expectations, estimates and projections about our business and operations. Our actual results may differ materially from those currently anticipated and expressed in such forward-looking statements as a result of a number of factors, including those which we discuss under "Risk Factors" and elsewhere in this Quarterly Report on Form 10-Q.

Overview

We are a clinical stage biotechnology company engaged in the discovery, development and commercialization of therapies targeting cancer. Our initial disease target is lung cancer, a serious medical condition with an incidence of over 236,000 new cases in the US in 2022, representing 12.3% of all cancers, and over 130,000 deaths, or 21.4% of all cancers. Worldwide, lung cancer incidence is over 2,200,000 per year (ranking second only after breast cancer), and mortality over 1,800,000 (ranking first). Specifically, we are targeting Non-Small Cell Lung Cancer (NSCLC), which represents 85% of all lung cancers. THIO (6-thio-dG or 6-thio-2'-deoxyguanosine), our lead asset, is an investigational dual mechanism of action drug candidate incorporating telomere targeting and immunogenicity.

We accomplished the following key milestones:

- In November 2018, we in-licensed THIO from University of Texas Southwestern, in Dallas. The patent license is global and exclusive for the duration of the patients' lives.
- In 2019, we generated the first data for THIO demonstrating complete regression with no recurrence when administered in advance of atezolizumab (Tecentriq®; Genentech), in colorectal and lung cancer preclinical models.
- In the first quarter 2020, we filed a provisional patent application for THIO in sequential combination with checkpoint inhibitors, covering all tumor types. The patent has not been allowed to date, but if it is allowed will have an expiration date in 2041, excluding any patent term adjustment or patent extension.
- In the first quarter 2021, we entered into a Drug Supply Agreement with Regeneron Pharmaceuticals, Inc. Under this agreement, Regeneron will provide cemiplimab (Libtayo®; anti-PD-1 checkpoint inhibitor) at no charge for the THIO-101 trials, testing THIO administration for immune activation followed by cemiplimab in NSCLC. This drug supply agreement replaces direct drug purchase expense that we would be otherwise required to incur. In exchange, Regeneron received development exclusivity in NSCLC for the duration of the trial meaning we cannot conduct trials in NSCLC with another checkpoint inhibitor during the time of the trial. All other areas of study and development in any other tumor types remain open.
- In the first quarter 2021, we initiated our clinical supply manufacturing under Good Manufacturing Practices conditions to provide clinical supply for THIO-101 and other development needs.
- In the first half of 2022, we completed a crossover round consisting of sales of 274,840 shares of our common stock at a price of \$9.00 per shares for gross proceeds of approximately \$2.5 million.
- In the first quarter 2022, THIO received approval by the Bellberry Human Research Ethics Committee ("HREC") in Australia to initiate the THIO-101 Phase 2 clinical study.
- In March 2022, the U.S. Food and Drug Administration (FDA) granted Orphan Drug Designation (ODD) to THIO for the treatment of hepatocellular carcinoma, and in May 2022, the FDA granted ODD to THIO for the treatment of small-cell lung cancer. The FDA's Office of Orphan Products Development may grant orphan designation status to drugs and biologics that are intended for the treatment, diagnosis or prevention

of rare diseases, or conditions that affect fewer than 200,000 people in the U.S. ODD provides certain benefits, including financial incentives, to support clinical development and the potential for up to seven years of market exclusivity for the drug for the designated orphan indication in the U.S. if the drug is ultimately approved for its designated indication.

- In May 2022, we entered into a research and collaboration agreement with the Nationwide Children's Hospital to evaluate the potential of THIO in combination with current standard-of-care therapies for brain cancer. The organizations are conducting preclinical studies to assess the efficacy and safety of THIO in combination with radiotherapy and immune checkpoint inhibitors in vitro and in vivo models.

- In July 2022, we completed our selection process for the clinical sites for our Phase 2 study in Australia and Europe and our application to start the Phase 2 study in Australia has been approved. In July 2022, the first patient was administered with THIO in our Phase 2 human trial (THIO-101) in Australia. We have also submitted a similar application to conduct the same Phase 2 study in Europe.

- On July 28, 2022, the Company's shares of common stock began trading on the NYSE American under the symbol MAIA. On August 1, 2022, the Company sold 2,000,000 shares of common stock at \$5.00 per share for gross proceeds of \$10,000,000 in an initial public offering prior to deducting underwriting discounts, commissions, and other offering expenses. On August 3, 2022, the Company sold an additional 300,000 shares of common stock at \$5.00 per share when the underwriter exercised the overallotment for net proceeds of \$1,500,000 prior to deducting underwriting discounts, commissions, and other offering expenses. We believe we have raised sufficient capital to fund the THIO-101 lead-in and preliminary efficacy of the phase 2 THIO-101 trial.

- In November 2022, we completed a pre-Investigational New Drug meeting with the FDA for the planned U.S. expansion of the THIO-101 Phase 2 trial evaluating THIO, an investigational telomere-targeting agent, in patients with advanced NSCLC.

- In December 2022, regulatory authorities in three European countries, Hungary, Poland, and Bulgaria, approved the implementation of THIO-101, MAIA's Phase 2 clinical trial. THIO-101 is a critical component of THIO's clinical development process and it is of the utmost importance that we collaborate with leading cancer institutes in Australia and now in Europe, for a target total of 30 clinical trial sites in six countries.

- In the first week of March 2023, the first two patients were dosed in Europe in MAIA's Phase 2 clinical trial, THIO-101 evaluating THIO in patients with advanced Non-Small Cell Lung Cancer (NSCLC). Following regulatory clearances in Hungary, Poland, and Bulgaria, nine clinical sites have been activated in these three European countries.

- On April 11, 2023, we announced positive topline data related to the completion of Part A, safety lead-in portion of the THIO-101 trial which showed that administration of THIO, at the highest dose of 360 mg/cycle in sequential combination with Regeneron's anti-PD-1 therapy, Libtayo® was well tolerated with no dose-limiting toxicities or significant treatment-related adverse events reported.

- On April 18, 2023, we published data in Hepatocellular Carcinoma ("HCC") (liver cancer) models: as monotherapy, THIO achieved complete and durable responses in HCC, the dominant histology in primary liver cancer (90%), in in vivo models. When combined with Libtayo®, duration of response was further potentiated. Upon rechallenge with two times more cancer cells and no additional treatment, tumor growth was completely prevented. Administration of THIO alone and in combination with Libtayo® generated anti-cancer immune memory.

- On April 20, 2023, we announced preliminary survival data from Part A of THIO-101. The first two patients enrolled in Part A of the study continue to be alive, approximately 10 and 9 months respectively, from treatment initiation. Both patients have advanced Stage IV metastatic disease and are heavily pretreated, receiving third and fourth line of therapy respectively after previously failing treatment with an immune checkpoint inhibitor. They continue to be progression free following their last dose of THIO, 7 and 6 months respectively, with no new treatment. The current treatment options in patients with advanced relapsed or refractory NSCLC who failed two or more therapy regimens are limited and show minimal benefit. Furthermore, discontinuation of treatment is rapidly followed by physical decline and death, therefore seeing patients with such survival and no disease progression in this clinical setting, is noteworthy. In real-world clinical practice, observed survival in such heavily pretreated patients is 3-4 months.
- On April 27, 2023 we closed a follow-on offering and sold 2,555,500 shares of common stock at a public offering price of \$2.25 per share, for gross proceeds of approximately \$5.75 million, before deducting underwriting discounts and offering expenses. The shares sold in the offering include the exercise in full by the underwriter of its option to purchase an additional 333,300 shares of common stock, in addition to the 2,222,200 shares of common stock which the underwriters initially agreed to purchase.
- On June 20, 2023, we announced updates in enrollment in THIO-101 in Europe. To that date, 29 patients had been dosed in THIO-101. With the addition of sites in Hungary, Poland, and Bulgaria in March 2023, THIO-101 has rapidly increased the number of patients enrolled and dosed with THIO. Thirteen sites were activated with another two new additional sites ready to open shortly afterward.
- In July 2023, we announced that the first 2 patients dosed with THIO continue to be alive for approximately 12.2 and 11.5 months respectively, from treatment initiation. They have remained free of disease progression for 10.2 and 8.5 months, respectively, without requiring any additional therapy. We also highlighted that out of the first 11 patients with post-baseline scans, 82% (9 patients) met the disease control primary endpoint at first response assessment. For contrast, in similar heavily treated NSCLC patients, typical disease control rates are in the 25-35% range.
- On August 23, 2023, our universal shelf registration statement on Form S-3 (File No. 333-273984) (the "Form S-3") for possible future offerings was declared effective by the SEC.
- On September 1, 2023, we entered into an "at-the-market" Sales Agreement (the "Sales Agreement") with ThinkEquity LLC (the "Sales Agent"), pursuant to which the Company may offer and sell, from time to time, through the Sales Agent, shares of the Company's common stock having an aggregate offering price of up to \$7,000,000, subject to the terms and conditions of the Sales Agreement. The shares will be offered and sold pursuant to the Company's prospectus supplement (the "Prospectus Supplement"), filed September 1, 2023 with the SEC to the prospectus forming a part of the Form S-3. We terminated the Sales Agreement on November 15, 2023. We sold 758,388 shares of our common stock through the Sales Agent for which the Company received net proceeds of approximately \$1,238,688.
- On September 28, 2023, we announced that its board of directors approved a share repurchase program pursuant to which the Company may repurchase up to \$800,000 of the Company's issued and outstanding shares of common stock through September 2024. The Company expects to fund repurchases by using cash on hand and expected cash flow to be generated in the future. As of September 30, 2023, no repurchases have been executed.
- On October 3, 2023, we announced that the FDA has cleared its IND application for THIO to be evaluated in the U.S. as part of THIO-101, the Company's ongoing global phase 2 clinical study in patients with advanced NSCLC. THIO is being tested in sequential combination with Regeneron's anti PD-1 monoclonal antibody cemiplimab (Libtayo®) to evaluate anti-tumor activity and immune response in NSCLC patients.
- On October 10, 2023, we announced that 49 patients have been dosed in MAIA's Phase 2 clinical trial, THIO-101, evaluating THIO in sequential combination with an immune checkpoint inhibitor in patients with advanced NSCLC.
- On October 24, 2023, we announced the unprecedented interim disease control rate (DCR) of 100% in second-line treatment that far surpasses standard of care (SoC) DCR of 53-64%, presented at ESMO 2023.

DCR is far stronger than overall response rate (ORR) in predicting overall survival benefit, as shown in a recent meta-analysis of 74 clinical trials worldwide in NSCLC.

- On November 10, 2023, we announced that the FDA granted orphan drug designation as a treatment for glioblastoma. This is the third orphan drug designation granted following the receipt of orphan drug designations for hepatocellular carcinoma and small cell lung cancer in 2022.
- On November 17, 2023, we announced the closing of a \$4 million registered direct offering for the issuance and sale of an aggregate of 2,424,243 of its shares of common stock at a purchase price of \$1.65 per share. In a concurrent private place, MAIA also issued and sold unregistered warrants to purchase up to an aggregate of 2,424,243 share of its common stock.
- On December 19, 2023, we announced dose selection for THIO-101, a Phase 2 clinical trial evaluating its lead asset, THIO, in sequential combination with Regeneron's anti-PD-1 cemiplimab (Libtayo®) in patients with advanced non-small cell lung cancer (NSCLC). During the dose-finding stage of THIO-101, patients were administered either 60mg, 180mg, or 360mg of THIO per cycle, followed by 350mg of cemiplimab (Libtayo®). The selected dose, 180mg/cycle, presented better safety profile and outperformed the other doses in the key measures of efficacy for NSCLC trials. Subsequently, all future trial participants will be treated with THIO 180mg/cycle.
- On January 17, 2024, we announced new interim data for our ongoing THIO-101 Phase 2 trial in non-small cell lung cancer (NSCLC). In the latest available data from THIO-101 (November 13, 2023), 60 patients had been dosed with THIO in sequential combination with Libtayo®. The patients received either 60mg, 180mg, or 360mg of THIO per dose, and 42 had at least one post baseline assessment completed. The observed disease control was well sustained compared to previous scans.
- On February 7, 2024, we announced publication of international Patent Cooperation Treat (PCT) application titled "Dinucleotides and Their Use in Treating Cancer." The new dinucleotides disclosed in the patent application are telomere-targeting molecules, such as THIO fragments or other THIO analogues. These compounds are key next-generation telomere-targeting agents, an important extension of MAIA's innovative cancer treatment platform. The PCT system streamlines the process for obtaining patent protection globally. Under the PCT, applicants can seek patent protection in a large number of countries.
- On February 14, 2024, we entered into an "at-the-market" Offering Agreement (the "ATM Agreement") with H.C. Wainwright & Co., LLC ("Wainwright"), to sell shares of common stock, par value \$0.0001 per share (the "Shares") having an aggregate sales price of up to \$1,445,000, from time to time, through an "at-the-market offering" program under which H.C. Wainwright will act as sales agent. Effective March 25, 2024, the Company filed a prospectus supplement to amend, supplement and supersede certain information contained in the earlier prospectus and prospectus supplement, which increased the number of shares of common stock the Company may offer and sell under the ATM Agreement to an aggregate offering price of up to \$4,950,000 from time to time. As of the date of this Quarterly Report, we have sold 1,256,562 shares of our common stock at an average price of \$2.40 per share, resulting in aggregate gross proceeds of approximately \$3,010,412 under the ATM Agreement.
- On February 22, 2024, we announced completion of enrollment in Phase 2 THIO-101 go-to-market clinical trial. The trial reached the enrollment target of 41 patients for the 180mg/dose on February 19, 2024. As of the latest data available for the trial, 79 patients had received either 60mg (24 patients), 180mg (41 patients) or 360mg (14 patients). The original trial design targeted up to 182 patients, including all patients in the safety lead-in and 41 patients in each of the 3 tested doses (60mg, 180mg, and 360mg). Following the selection of 180 mg/cycle as the optimal dose in December 2023, all patients were subsequently enrolled at the 180mg/cycle dose and trial enrollment was completed ahead of schedule.
- On March 6, 2024, we announced interim efficacy data for THIO-101 Phase 2 trial in NSCLC. In the latest data available (January 8, 2024), the overall response rate (ORR), characterized as partial or complete response to therapy, was 38% (3 out of 8 patients) in the efficacy evaluable population for combination THIO 180mg + cemiplimab in third-line treatment for NSCLC patients who failed treatment with immune checkpoint inhibitors in prior lines of therapy, with or without chemotherapy.
- On March 14, 2024, we issued and sold 2,496,318 shares of our common stock and warrants to purchase 2,496,318 shares of our common stock in a private placement to certain accredited investors and certain of

our directors pursuant to securities purchase agreements dated March 11, 2024 at a price per share of \$1.17 for which we received gross proceeds of approximately \$2.92 million. The securities sold to our directors participating in the private placement were issued pursuant to our 2021 Equity Incentive Plan.

- On March 28, 2024, we issued and sold 578,643 shares of our common stock and warrants to purchase 578,643 shares of our common stock in a private placement to certain accredited investors pursuant to securities purchase agreements dated March 25, 2024 at a price per share of \$2.295 for which we received gross proceeds of approximately \$1.33 million.

- On March 27, 2024, MAIA evaluated additional clinical data from its Phase 2 clinical trial, THIO-101. At such time, a total of 68 patients have been dosed and had a post-baseline scan in MAIA's Phase 2 clinical trial, THIO-101, evaluating THIO in sequential combination with an immune checkpoint inhibitor in patients with advanced NSCLC. Preliminary efficacy across all lines of therapy in this March 2024 data cut were consistent with previous reports including: (i) 75% of patients receiving THIO 180mg as third-line therapy for NSCLC have surpassed the overall survival (OS) threshold of 5.8 months; (ii) 88% of patients in the same setting (3L, 180mg) also crossed the 2.5 months progression free survival (PFS) threshold and have shown overall response rates (ORR) of 38%, greatly improving on current chemo treatment that have ORR of around 6-10% and (iii) across all third-line patients, disease control rate (DCR) of 85% remained superior to current chemotherapy options, which ranges from 25-35% DCR.

- On April 25, 2024, we issue and sold 494,096 shares of our common stock and warrants to purchase 494,096 shares of our common stock in a private placement to certain accredited investors and Company directors pursuant to securities purchase agreements dated April 22, 2024 at a price per share of \$2.034 for which we received gross proceeds of approximately \$1.0 million. The securities sold to our directors participating in the private placement were issued pursuant to our 2021 Equity Incentive Plan.

- In addition to NSCLC, MAIA plans to conduct clinical trials evaluating THIO in sequential combination with an immune checkpoint inhibitor in several other cancer indications. THIO-102 is a Phase 2 clinical trial planned to target: (i) colorectal cancer (CRC), in which THIO demonstrated 100% complete response in pre-clinical setting, with no tumor recurrence after long-term follow-up, (ii) hepatocellular carcinoma (HCC, 90% of primary liver cancers), a deadly cancer indication to which MAIA holds an Orphan Drug Designation (ODD) awarded by the U.S. FDA in April, 2022; (iii) small cell lung cancer (SCLC), the deadliest type of lung cancer, MAIA also has been awarded ODD for this indication in August, 2022; and (iv) solid tumors, such as breast, prostate, gastric, pancreatic and ovarian cancers. THIO-103 is a Phase 2 clinical trial planned to evaluate treatment with THIO in first-line patients for both NSCLC and SCLC.

Impact of the War in Ukraine and War in Israel on Our Operations

The short and long-term implications of war in Ukraine and war in Israel are difficult to predict at this time. The imposition of sanctions and counter sanctions may have an adverse effect on the economic markets generally and could impact our business, financial condition, and results of operations. Because of the highly uncertain and dynamic nature of these events, the Company terminated any planned research activities in the impacted areas.

Financial Operations Overview and Analysis for the Three Months Ended March 31, 2024 and 2023

Comparison of three months ended March 31, 2024 and 2023

	Three Months Ended March 31,		Change	
	2024	2023	Dollars	Percentage
Operating expenses:				
Research and development expenses	\$ 2,320,742	\$ 2,195,991	\$ 124,751	6%
General and administrative expenses	1,628,134	1,988,259	(360,125)	(18)%
Total operating costs and expenses	3,948,876	4,184,250	(235,374)	(6)%
Loss from operations	(3,948,876)	(4,184,250)	235,374	(6)%
Other (expense) income:				
Interest expense	—	(5,147)	5,147	(100)%
Interest income	44,118	336	43,782	13030%
Australian research and development incentives	18,601	51,243	(32,642)	(64)%
Change in fair value of warrant liability	(4,181,298)	20,942	(4,202,240)	(20066)%
Other income, net	(4,118,579)	67,374	(4,185,953)	(6213)%
Net loss	(8,067,455)	(4,116,876)	(3,950,579)	96%
Net loss attributable to MAIA Biotechnology, Inc. shareholders	<u>\$ (8,067,455)</u>	<u>\$ (4,116,876)</u>	<u>\$ (3,950,579)</u>	96%

Operating Expenses

Research and development expenses

Research and development expenses increased by approximately \$125,000 or 6%, from approximately \$2,196,000 for the three months ended March 31, 2023 to approximately \$2,321,000 for the three months ended March 31, 2024. The increase was primarily related to an increase in scientific research and clinical research of approximately \$603,000, offset by a decrease in payroll and bonus expenses of approximately \$316,000 related to the decreased headcount of research and development employees, and decrease in stock-based compensation costs of approximately \$162,000.

General and administrative expenses

General and administrative expenses decreased by approximately \$360,000, or 18% from approximately \$1,988,000 for the three months ended March 31, 2023 to approximately \$1,628,000 for the three months ended March 31, 2024. The decrease was primarily related to a decrease in other expenses of approximately \$172,000 related to lower investor relations and communication expenses, a decrease in payroll expense of approximately \$112,000, a decrease in professional fees of approximately \$50,000 relating to lower usage of consultants, and a decrease in stock-based compensation of approximately \$26,000.

Other expense, net

Other expense, net increased by approximately 4,186,000 or 6213% from other income of approximately \$67,000 for the three months ended March 31, 2023 to other expense of approximately \$4,119,000 for the three months ended March 31, 2024. The increase was primarily related to the change in the fair value of the warrant liability of approximately \$4,202,000, a reduction in the Australia research and development incentives of approximately \$33,000 and a net increase of interest income of approximately \$49,000.

Liquidity and Capital Resources

Our Ability to Continue as a Going Concern

As of March 31, 2024, our cash totaled approximately \$8,271,000 which represented an increase of approximately \$1,121,000 compared to December 31, 2023. As of March 31, 2024, we had working capital of approximately \$3,792,000 which represents an increase of approximately \$1,165,000 compared to December 31, 2023. We have generated no revenues as of March 31, 2024. Our current operating plan indicates that it will continue to incur losses from operations and generate negative cash flows from operating activities given ongoing expenditures related to the completion of its ongoing clinical trials and our lack of revenue generating activities. Based on our cash reserves as of March 31, 2024 of \$8,271,000 and current financial condition as of the date of the Quarterly Report on Form 10-Q, the accompanying condensed consolidated financial statements have been prepared on a going concern basis, which contemplates the realization of assets and the satisfaction of liabilities in the normal course of business. The condensed consolidated financial statements do not include any adjustments that might result from the outcome of this uncertainty.

To meet the Company's future working capital needs, we will need to raise additional equity or enter into debt financing. While we have historically been able to raise additional capital through issuance of equity and/or debt financing, and we have implemented a plan to control its expenses in order to satisfy its obligations due within one year from the date of issuance of these financial statements, we cannot guarantee that it will be able to raise additional equity, raise debt, or contain expenses. Accordingly, there is substantial doubt about our ability to continue as a going concern within one year after these financial statements are issued.

Sales of Common Stock

Between February 14, 2024 and March 31, 2024, we have sold 507,754 shares of our common stock at an average price of \$1.47 per share, resulting in aggregate gross proceeds of approximately \$745,000 under the initial ATM Agreement with H.C. Wainwright & Co., LLC.

On March 14, 2024, we issued and sold 2,496,318 shares of our common stock and warrants to purchase 2,496,318 shares of our common stock in a private placement to certain accredited investors and to our participating directors pursuant to securities purchase agreements dated March 11, 2024 at a price \$1.17 per share for which we received gross proceeds of approximately \$2.92 million. The securities sold to our directors participating in the private placement were issued pursuant to our 2021 Equity Incentive Plan.

On March 28, 2024, we issued and sold 578,643 shares of our common stock and warrants to purchase 578,643 shares of our common stock in a private placement to certain accredited investors pursuant to securities purchase agreements dated March 25, 2024 at a price of \$2.295 per share for which we received gross proceeds of approximately \$1.33 million.

We will need to raise additional capital to fund our operations, to develop and commercialize THIO, and to develop, acquire or in-license other products. We may seek to fund our operations through public equity, private equity, or debt financings, as well as other sources. We cannot make any assurances that additional financings will be available to us and, if available, on acceptable terms or at all. This could negatively impact our business and operations and could also lead to the reduction of our operations.

Cash Flows

Cash Flows for three months ended March 31, 2024 and 2023

	Three Months Ended March 31,	
	2024	2023
Net cash flows used in operating activities	\$ (3,586,800)	\$ (3,360,649)
Net cash flows provided by financing activities	4,717,048	-
Effect of foreign currency exchange rate changes on cash	(9,494)	(3,966)
Net increase in cash and cash equivalents	<u>\$ 1,120,754</u>	<u>\$ (3,364,615)</u>

Operating Activities

For the three months ended March 31, 2024, net cash used in operating activities was approximately \$3,587,000, which consisted of a consolidated net loss of approximately \$8,067,000 offset by non-cash charges of approximately \$350,000 in stock-based compensation, approximately \$12,000 of non-cash expense to issue stock to consultants, and the remeasurement of the warrant liability of approximately \$4,181,000. Total changes in operating assets and liabilities of approximately \$63,000 were driven by an approximate \$39,000 net decrease in accounts payable and accrued expenses, an approximate \$19,000 decrease in the Australia research and development incentives receivable, and an approximate \$5,000 decrease in prepaid expense and other assets.

For the three months ended March 31, 2023, net cash used in operating activities was approximately \$3,361,000, which consisted of a net loss of approximately \$4,117,000 offset by non-cash charges of approximately \$538,000 in stock-based compensation, approximately \$164,000 of non-cash expense to issue stock to consultants, and the remeasurement of the warrant liability of approximately \$21,000. Total changes in operating assets and liabilities of approximately \$76,000 were driven by an approximate \$27,000 decrease in accounts payable and accrued liabilities, an approximate \$154,000 increase in prepaid expenses and other assets and an approximate decrease of \$51,000 in Australia research and development incentives receivables.

For the three months ended March 31, 2024 the effect of foreign currency exchange rate changes on cash decreased the cash balance as of March 31, 2024 by approximately \$9,000 versus approximately \$4,000 for the three months ended March 31, 2023.

Financing Activities

Net cash provided by financing activities was approximately \$4,717,000 and \$0 for the three months ended March 31, 2024 and 2023, respectively. Total net cash provided by financing activities for the three months ended March 31, 2024 consisted primarily of approximately \$4,249,000 gross proceeds from private placement offerings, proceeds from the at-the-market offering of approximately \$745,000, and offset by an approximate \$277,000 of offering costs.

Critical Accounting Policies and Significant Judgments and Estimates

Our condensed consolidated financial statements are prepared in accordance with U.S. generally accepted accounting principles (U.S. GAAP). These accounting principles require us to make certain estimates, judgments and assumptions that affect the reported amounts of assets and liabilities as of the date of the financial statements. We believe that the estimates, judgments and assumptions are reasonable based upon information available to us at the time that these estimates, judgments and assumptions are made. To the extent there are material differences between these estimates, judgments or assumptions and actual results, our financial statements will be affected. For a discussion of our critical accounting estimates, please read Part II, Item 7 — Management's Discussion and Analysis of Financial Condition and Results of Operations in our Annual Report on Form 10-K for the year ended December 31, 2023 filed with the SEC on March 21, 2024. There have been no material changes to the critical accounting estimates previously disclosed in such report.

Item 3. Quantitative and Qualitative Disclosures About Market Risk.

We are a smaller reporting company and are not required to provide the information otherwise required under this item.

Item 4. Controls and Procedures.**Evaluation of Disclosure Controls and Procedures**

Under the supervision of and with the participation of our management, including our Chief Executive Officer, who is our principal executive officer, and our Head of Finance, who is our principal financial officer, we conducted an evaluation of the effectiveness of our disclosure controls and procedures as of March 31, 2024 the end of the period covered by this Quarterly Report. The term "disclosure controls and procedures," as set forth in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended, or the Exchange Act, means controls and other procedures of a company that are designed to provide reasonable assurance that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the rules and forms promulgated by the SEC. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by a company in the reports that it files or submits under the Exchange Act is accumulated and communicated to the company's management, including its principal executive and principal financial officers, as appropriate to allow timely decisions regarding required disclosure. In designing and evaluating our disclosure controls and procedures, management recognizes that disclosure controls and procedures, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the disclosure controls and procedures are met. Additionally, in designing disclosure controls and procedures, our management necessarily was required to apply its judgment in evaluating the cost-benefit relationship of possible disclosure controls and procedures. The design of any system of controls also is based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions; over time, controls may become inadequate because of changes in conditions, or the degree of compliance with policies or procedures may deteriorate. Because of the inherent limitations in a control system, misstatements due to error or fraud may occur and not be detected. Based on the evaluation of our disclosure controls and procedures as of March 31, 2024, our Chief Executive Officer and Head of Finance concluded that, as of such date, our disclosure controls and procedures were effective at the reasonable assurance level.

Changes in Internal Control over Financial Reporting

There were no changes in our internal control over financial reporting identified in management's evaluation pursuant to Rules 13a-15(d) or 15d-15(d) of the Exchange Act during the period covered by this Quarterly Report on Form 10-Q that materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II—OTHER INFORMATION

Item 1. Legal Proceedings

We are not party to any material legal proceedings. From time to time, we may be involved in legal proceedings or subject to claims incident to the ordinary course of business. Regardless of the outcome, such proceedings or claims can have an adverse impact on us because of defense and settlement costs, diversion of resources and other factors, and there can be no assurances that favorable outcomes will be obtained.

Item 1A. Risk Factors.

Factors that could cause our actual results to differ materially from those in this Quarterly Report are any of the risks described in our Annual Report on Form 10-K filed under the heading “*Risk Factors*” and filed with the SEC on March 21, 2024. Any of these factors could result in a significant or material adverse effect on our results of operations or financial condition. Additional risk factors not presently known to us or that we currently deem immaterial may also impair our business or results of operations. As of the date of this Quarterly Report, except as set forth below, there are no additional risk factors added to the risk factors disclosed in our Annual Report on Form 10-K.

If we are unable to comply with the continued listing requirements of the NYSE American, then our common stock would be delisted from the NYSE American, which would limit investors’ ability to effect transactions in our common stock and subject us to additional trading restrictions.

Our common stock is currently listed on the NYSE American and the continued listing of our common stock on the NYSE American is contingent on our continued compliance with a number of listing requirements. If we are unable to comply with the continued listing requirements of the NYSE American, our common stock would be delisted from the NYSE American, which would limit investors’ ability to effect transactions in our common stock and subject us to additional trading restrictions. In order to maintain our listing, we must maintain certain share prices, financial and share distribution targets, including maintaining a minimum amount of stockholders’ equity and a minimum number of public stockholders, as well as satisfy other listing requirements of the NYSE American. In addition to these objective standards, NYSE American may delist the securities of any issuer for other reasons involving the judgment of NYSE American.

While our stockholders’ deficit was approximately \$5.76 million as of March 31, 2024, and we have had losses from continuing operations and/or net losses in each of our fiscal years ended December 31, 2021, 2022 and 2023, we are nevertheless currently in compliance with the NYSE continued listing standards as we satisfy alternate compliance standards provided in Section 1003(a) of the NYSE American Company Guide since (i) the total value of our market capitalization is at least \$50,000,000 and (ii) we have at least 1,100,000 shares publicly held, a market value of publicly held shares of at least \$15,000,000 and 400 round lot shareholders. There is no assurance that we will be able to maintain compliance with the NYSE American continued listing rules and/or continue our listing on the NYSE American in the future.

If the NYSE American delists our common stock from trading on its exchange and we are not able to list our securities on another national securities exchange, we expect the common stock would qualify to be quoted on an over-the-counter market. If this were to occur, we could face significant material adverse consequences, including:

- a limited availability of market quotations for our securities;
- reduced liquidity for our securities;
- substantially impair our ability to raise additional funds;

- result in a loss of institutional investor interest and a decreased ability to issue additional securities or obtain additional financing in the future;
- a determination that our common stock is a “penny stock,” which will require brokers trading in our common stock to adhere to more stringent rules and possibly result in a reduced level of trading activity in the secondary trading market for our securities;
- a limited amount of news and analyst coverage; and
- potential breaches of representations or covenants of our agreements pursuant to which we made representations or covenants relating to our compliance with applicable listing requirements, which, regardless of merit, could result in costly litigation, significant liabilities and diversion of our management’s time and attention and could have a material adverse effect on our financial condition, business and results of operations.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.

Recent sales of unregistered securities

On March 18, 2024, we issued 12,500 shares of restricted common stock pursuant to an agreement the Company entered into on August 15, 2023 with Laidlaw & Company for investor services. We did not receive any proceeds from this issuance.

On May 10, 2024, the Company issued 4,678 shares of Common Stock upon exercise of an existing warrant on a net-exercise basis. These shares were issued pursuant to the exemption from registration provided by Section 4(a)(2) and/or 3(a)(9) of the Securities Act of 1933, as amended.

No underwriters were involved in the foregoing issuance of securities. The securities described above were issued in reliance upon the exemption from the registration requirements of the Securities Act, as set forth in Section 4(a)(2) under the Securities Act relative to transactions by an issuer not involving any public offering, to the extent an exemption from such registration was required. The recipient of securities in the transaction described above represented that it was an accredited investor and was acquiring the securities for its own account for investment purposes only, and not with a view to, or for sale in connection with, any distribution thereof and that they could bear the risks of the investment and could hold the securities for an indefinite period of time and appropriate legends were affixed to the instruments representing such securities issued in such transactions

Purchases of equity securities by the issuer and affiliated purchasers.

None.

Item 3. Defaults Upon Senior Securities

None

Item 4. Mine Safety Disclosures.

Not applicable.

Item 5. Other Information.

Amendments to Common Stock Purchase Warrants

On May 11, 2024, the Company entered into amendments to certain of those common stock purchase warrants originally issued on March 14, 2024 with an exercise price of \$1.30 per share with holders of such warrants to

purchase 1,794,882 shares of common stock (out of warrants to purchase an aggregate of 2,043,587 shares of common stock issued to non-affiliated investors on March 14, 2024) to amend and restate the "Fundamental Transaction" adjustment provision in such warrants to facilitate such warrants being accounted for on the Company's balance sheet as equity in future periods as opposed to a warrant liability.

On May 11, 2024, the Company entered into amendments to certain of those common stock purchase warrants originally issued on March 28, 2024 with an exercise price of \$2.55 per share with holders of such warrants to purchase 349,886 shares of common stock (out of warrants to purchase an aggregate of 578,643 shares of common stock issued to non-affiliated investors on March 28, 2024) to amend and restate the "Fundamental Transaction" adjustment provision in such warrants to facilitate such warrants being accounted for on the Company's balance sheet as equity in future periods as opposed to a warrant liability.

On May 11, 2024, the Company entered into amendments to certain of those common stock purchase warrants originally issued on April 25, 2024 with an exercise price of \$2.26 per share with holders of such warrants to purchase 263,027 shares of common stock (out of warrants to purchase an aggregate of 326,939 shares of common stock issued to non-affiliated investors on April 25, 2024) to amend and restate the "Fundamental Transaction" adjustment provision in such warrants to facilitate such warrants being accounted for on the Company's balance sheet as equity in future periods as opposed to a warrant liability.

The foregoing descriptions of terms and conditions of the amendments to common stock purchase warrants originally issued on each of March 14, 2024, March 28, 2024 and April 25, 2024 do not purport to be complete and are qualified in their entirety by the full text of the form of such amendments, which are attached hereto as Exhibits 4.1, 4.2, and 4.3, respectively, to this Quarterly Report on Form 10-Q and are incorporated by reference herein.

10b5-1 Trading Plans

During the fiscal quarter ended March 31, 2024, no Section 16 director or officer adopted, modified, or terminated a "Rule 10b5-1 trading arrangement" (as defined in Item 408 of Regulation S-K of the Exchange Act).

There were no "non-Rule 10b5-1 trading arrangements" (as defined in Item 408 of Regulation S-K of the Exchange Act) adopted, modified or terminated during the fiscal quarter ended March 31, 2024 by our directors and Section 16 officers.

Item 6. Exhibits.

4.1*	<u>Form of Amendment No. 1 to Common Stock Purchase Warrant (for March 14, 2024 Common Stock Purchase Warrants).</u>
4.2*	<u>Form of Amendment No. 1 to Common Stock Purchase Warrant (for March 28, 2024 Common Stock Purchase Warrants).</u>
4.3*	<u>Form of Amendment No. 1 to Common Stock Purchase Warrant (for April 25, 2024 Common Stock Purchase Warrants).</u>
31.1*	<u>Certification of Principal Executive Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</u>
31.2*	<u>Certification of Principal Financial Officer Pursuant to Rules 13a-14(a) and 15d-14(a) under the Securities Exchange Act of 1934, as Adopted Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</u>
32.1**	<u>Certification of Principal Executive Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</u>
32.2**	<u>Certification of Principal Financial Officer Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</u>
101.INS*	Inline XBRL Instance Document – the instance document does not appear in the Interactive Data File because XBRL tags are embedded within the Inline XBRL 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 (embedded within the Inline XBRL document)

* Filed herewith.

** These certifications are furnished to the SEC pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 and are deemed not filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended, nor shall they be deemed incorporated by reference in any filing under the Securities Act of 1933, except as shall be expressly set forth by specific reference in such filing.

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 by the undersigned thereunto duly authorized.

MAIA Biotechnology Inc.

Date: May 14, 2024

By:

/s/ Vlad Vitoc
Vlad Vitoc
Chief Executive Officer
(Principal Executive Officer)

Date: May 14, 2024

By:

/s/ Jeffrey C. Himmelreich
Jeffrey C. Himmelreich
Head of Finance
(Principal Financial Officer)

**AMENDMENT NO. 1 TO
COMMON STOCK PURCHASE WARRANT**

This AMENDMENT NO. 1 TO COMMON STOCK PURCHASE WARRANT (this "Amendment") is entered into as of May __, 2024, by and between MAIA Biotechnology, Inc., a Delaware corporation (the "Company"), and such holder identified on the signature page hereto (the "Holder").

WHEREAS, the Holder is the holder of that certain Common Stock Purchase Warrant, issued as of March 14, 2024, to purchase that amount of shares of common stock of the Company, par value \$0.0001 per share set forth under its name on the signature page hereto (the "Warrant Shares") at a price per Warrant Share of \$1.30 (the "Original Warrant");

WHEREAS, pursuant to Section 5(l) of the Original Warrant, the Original Warrant may be modified or amended or the provisions thereof waived with the written consent of the Company and the Holder; and

WHEREAS, the Company and the Holder desire to amend the Original Warrant as set forth in this Amendment to allow the Original Warrant, as amended by the terms hereby, to be classified as equity on the Company's balance sheet.

NOW, THEREFORE, in consideration of the mutual agreements contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and intending to be legally bound hereby, the Company and the Holder hereby agree as follows:

1. Amendments

a. Section 2(c)—Cashless Exercise. Section 2(c) is hereby amended to delete the definition of "Bid Price" in its entirety.

b. Section 3(d)—Certain Adjustments—Fundamental Transaction. Section 3(d) is hereby amended and restated in its entirety as follows:

"d) Fundamental Transaction. If, at any time while this Warrant is outstanding, (i) the Company, directly or indirectly, in one or more related transactions effects any merger or consolidation of the Company with or into another Person, (ii) the Company (or any Subsidiary), directly or indirectly, effects any sale, lease, license, assignment, transfer, conveyance or other disposition of all or substantially all of the assets of the Company in one or a series of related transactions, (iii) any, direct or indirect, purchase offer, tender offer or exchange offer (whether by the Company or another Person) is completed pursuant to which holders of Common Stock are permitted to sell, tender or exchange their shares for other securities, cash or property and has been accepted by the holders of 50% or more of the voting power of the common equity of the Company, (iv) the Company, directly or indirectly, in one or more related transactions effects any reclassification, reorganization or recapitalization of the Common Stock or any compulsory share exchange pursuant to which the Common Stock is effectively converted into or exchanged for other securities, cash or property, or (v) the Company, directly or indirectly, in one or more related transactions consummates a stock or share purchase agreement or other business combination (including, without limitation, a reorganization, recapitalization, spin-off, merger or scheme of arrangement) with another Person or group of Persons whereby such other Person or group acquires more than 50% of the voting power of the common equity of the Company (each a "Fundamental

Transaction”), then, upon any subsequent exercise of this Warrant, the Holder shall have the right to receive, for each Warrant Share that would have been issuable upon such exercise immediately prior to the occurrence of such Fundamental Transaction, at the option of the Holder (without regard to any limitation in Section 2(e) on the exercise of this Warrant), the number of shares of Common Stock of the successor or acquiring corporation or of the Company, if it is the surviving corporation, and any additional consideration (the “Alternate Consideration”) receivable as a result of such Fundamental Transaction by a holder of the number of shares of Common Stock for which this Warrant is exercisable immediately prior to such Fundamental Transaction (without regard to any limitation in Section 2(e) on the exercise of this Warrant). For purposes of any such exercise, the determination of the Exercise Price shall be appropriately adjusted to apply to such Alternate Consideration based on the amount of Alternate Consideration issuable in respect of one share of Common Stock in such Fundamental Transaction, and the Company shall apportion the Exercise Price among the Alternate Consideration in a reasonable manner reflecting the relative value of any different components of the Alternate Consideration. If holders of Common Stock are given any choice as to the securities, cash or property to be received in a Fundamental Transaction, then the Holder shall be given the same choice as to the Alternate Consideration it receives upon any exercise of this Warrant following such Fundamental Transaction. Notwithstanding anything to the contrary, in the event of a Fundamental Transaction, the Company or any Successor Entity (as defined below) shall, at the Holder’s option, exercisable at any time concurrently with, or within 30 days after, the consummation of the Fundamental Transaction (or, if later, the date of the public announcement of the applicable Fundamental Transaction), purchase this Warrant from the Holder by paying to the Holder an amount of cash equal to the Black Scholes Value (as defined below) of the remaining unexercised portion of this Warrant on the date of the consummation of such Fundamental Transaction; provided, however, that, if the Fundamental Transaction is not within the Company’s control, including not approved by the Company’s Board of Directors, the Holder shall only be entitled to receive from the Company or any Successor Entity the same type or form of consideration (and in the same proportion), at the Black Scholes Value of the unexercised portion of this Warrant, that is being offered and paid to the holders of Common Stock of the Company in connection with the Fundamental Transaction, whether that consideration be in the form of cash, stock or any combination thereof, or whether the holders of Common Stock are given the choice to receive from among alternative forms of consideration in connection with the Fundamental Transaction; provided, further, that if holders of Common Stock of the Company are not offered or paid any consideration in such Fundamental Transaction, such holders of Common Stock will be deemed to have received common stock of the Successor Entity (which Entity may be the Company following such Fundamental Transaction) in such Fundamental Transaction. “Black Scholes Value” means the value of this Warrant based on the Black-Scholes Option Pricing Model obtained from the “OV” function on Bloomberg determined as of the day of consummation of the applicable Fundamental Transaction for pricing purposes and reflecting (A) a risk-free interest rate corresponding to the U.S. Treasury rate for a period equal to the time between the date of the public announcement of the applicable contemplated Fundamental Transaction and the Termination Date, (B) an expected volatility equal to the 30 day volatility as obtained from the HVT function on Bloomberg (determined utilizing a 365 day annualization factor) as of the Trading Day immediately following the public announcement of the applicable contemplated Fundamental Transaction, (C) the underlying price per share used in such calculation shall be the VWAP on the Trading Day of the Holder’s request pursuant to this Section 3(d), (D) a remaining option time equal to the time between the date of the public announcement of the applicable contemplated Fundamental Transaction and the Termination Date and (E) a zero cost of borrow. The payment of the Black Scholes Value will be made by wire transfer of immediately available funds (or such other consideration) within the later of (i) five Business Days of the Holder’s election and (ii) the date of consummation of the Fundamental Transaction. The Company shall cause any successor entity in a Fundamental Transaction in which the Company is not the survivor (the “Successor Entity”) to

assume in writing all of the obligations of the Company under this Warrant and the other Transaction Documents in accordance with the provisions of this Section 3(d) pursuant to written agreements in form and substance reasonably satisfactory to the Holder and approved by the Holder (without unreasonable delay) prior to such Fundamental Transaction and shall, at the option of the Holder, deliver to the Holder in exchange for this Warrant a security of the Successor Entity evidenced by a written instrument substantially similar in form and substance to this Warrant which is exercisable for a corresponding number of shares of capital stock of such Successor Entity (or its parent entity) equivalent to the shares of Common Stock acquirable and receivable upon exercise of this Warrant (without regard to any limitations on the exercise of this Warrant) prior to such Fundamental Transaction, and with an exercise price which applies the exercise price hereunder to such shares of capital stock (but taking into account the relative value of the shares of Common Stock pursuant to such Fundamental Transaction and the value of such shares of capital stock, such number of shares of capital stock and such exercise price being for the purpose of protecting the economic value of this Warrant immediately prior to the consummation of such Fundamental Transaction), and which is reasonably satisfactory in form and substance to the Holder. Upon the occurrence of any such Fundamental Transaction, the Successor Entity shall be added to the term "Company" under this Warrant (so that from and after the occurrence or consummation of such Fundamental Transaction, each and every provision of this Warrant and the other Transaction Documents referring to the "Company" shall refer instead to each of the Company and the Successor Entity or Successor Entities, jointly and severally), and the Successor Entity or Successor Entities, jointly and severally with the Company, may exercise every right and power of the Company prior thereto and the Successor Entity or Successor Entities shall assume all of the obligations of the Company prior thereto under this Warrant and the other Transaction Documents with the same effect as if the Company and such Successor Entity or Successor Entities, jointly and severally, had been named as the Company herein. For the avoidance of doubt, the Holder shall be entitled to the benefits of the provisions of this Section 3(d) regardless of (i) whether the Company has sufficient authorized shares of Common Stock for the issuance of Warrant Shares and/or (ii) whether a Fundamental Transaction occurs prior to the Initial Exercise Date.

2. No Further Amendment. Except as amended by this Amendment, the Original Warrant remains unaltered and shall remain in full force and effect.

3. Jurisdiction. All questions concerning the construction, validity, enforcement and interpretation of this Amendment shall be determined in accordance with the provisions of that certain Securities Purchase Agreement dated as of March 11, 2024, as amended, between the Company and the Holder.

4. Counterparts. This Amendment may be executed in any number of counterparts, each of which will be deemed an original and all of which together will constitute one and the same instrument. Signatures delivered by facsimile, electronic mail (including as a PDF file) or other transmission method shall be deemed to be original signatures, shall be valid and binding, and, upon delivery, shall constitute due execution of this Amendment.

(Signature page follows)

IN WITNESS WHEREOF, each of the Company and the Holder has caused this Amendment to be executed by its officer thereunto duly authorized as of the date first above indicated.

COMPANY:

MAIA BIOTECHNOLOGY, INC.

By: _____
Name: _____
Title: _____

HOLDER:

Name of Holder: _____

By: _____
Name: _____
Title: _____
Number of Warrant Shares: _____

**AMENDMENT NO. 1 TO
COMMON STOCK PURCHASE WARRANT**

This AMENDMENT NO. 1 TO COMMON STOCK PURCHASE WARRANT (this "Amendment") is entered into as of May __, 2024, by and between MAIA Biotechnology, Inc., a Delaware corporation (the "Company"), and such holder identified on the signature page hereto (the "Holder").

WHEREAS, the Holder is the holder of that certain Common Stock Purchase Warrant, issued as of March 28, 2024, to purchase that amount of shares of common stock of the Company, par value \$0.0001 per share set forth under its name on the signature page hereto (the "Warrant Shares") at a price per Warrant Share of \$2.55 (the "Original Warrant");

WHEREAS, pursuant to Section 5(l) of the Original Warrant, the Original Warrant may be modified or amended or the provisions thereof waived with the written consent of the Company and the Holder; and

WHEREAS, the Company and the Holder desire to amend the Original Warrant as set forth in this Amendment to allow the Original Warrant, as amended by the terms hereby, to be classified as equity on the Company's balance sheet.

NOW, THEREFORE, in consideration of the mutual agreements contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and intending to be legally bound hereby, the Company and the Holder hereby agree as follows:

1. Amendments

a. Section 2(c)—Cashless Exercise. Section 2(c) is hereby amended to delete the definition of "Bid Price" in its entirety.

b. Section 3(d)—Certain Adjustments—Fundamental Transaction. Section 3(d) is hereby amended and restated in its entirety as follows:

"d) Fundamental Transaction. If, at any time while this Warrant is outstanding, (i) the Company, directly or indirectly, in one or more related transactions effects any merger or consolidation of the Company with or into another Person, (ii) the Company (or any Subsidiary), directly or indirectly, effects any sale, lease, license, assignment, transfer, conveyance or other disposition of all or substantially all of the assets of the Company in one or a series of related transactions, (iii) any, direct or indirect, purchase offer, tender offer or exchange offer (whether by the Company or another Person) is completed pursuant to which holders of Common Stock are permitted to sell, tender or exchange their shares for other securities, cash or property and has been accepted by the holders of 50% or more of the voting power of the common equity of the Company, (iv) the Company, directly or indirectly, in one or more related transactions effects any reclassification, reorganization or recapitalization of the Common Stock or any compulsory share exchange pursuant to which the Common Stock is effectively converted into or exchanged for other securities, cash or property, or (v) the Company, directly or indirectly, in one or more related transactions consummates a stock or share purchase agreement or other business combination (including, without limitation, a reorganization, recapitalization, spin-off, merger or scheme of arrangement) with another Person or group of Persons whereby such other Person or group acquires more than 50% of the voting power of the common equity of the Company (each a "Fundamental

Transaction”), then, upon any subsequent exercise of this Warrant, the Holder shall have the right to receive, for each Warrant Share that would have been issuable upon such exercise immediately prior to the occurrence of such Fundamental Transaction, at the option of the Holder (without regard to any limitation in Section 2(e) on the exercise of this Warrant), the number of shares of Common Stock of the successor or acquiring corporation or of the Company, if it is the surviving corporation, and any additional consideration (the “Alternate Consideration”) receivable as a result of such Fundamental Transaction by a holder of the number of shares of Common Stock for which this Warrant is exercisable immediately prior to such Fundamental Transaction (without regard to any limitation in Section 2(e) on the exercise of this Warrant). For purposes of any such exercise, the determination of the Exercise Price shall be appropriately adjusted to apply to such Alternate Consideration based on the amount of Alternate Consideration issuable in respect of one share of Common Stock in such Fundamental Transaction, and the Company shall apportion the Exercise Price among the Alternate Consideration in a reasonable manner reflecting the relative value of any different components of the Alternate Consideration. If holders of Common Stock are given any choice as to the securities, cash or property to be received in a Fundamental Transaction, then the Holder shall be given the same choice as to the Alternate Consideration it receives upon any exercise of this Warrant following such Fundamental Transaction. Notwithstanding anything to the contrary, in the event of a Fundamental Transaction, the Company or any Successor Entity (as defined below) shall, at the Holder’s option, exercisable at any time concurrently with, or within 30 days after, the consummation of the Fundamental Transaction (or, if later, the date of the public announcement of the applicable Fundamental Transaction), purchase this Warrant from the Holder by paying to the Holder an amount of cash equal to the Black Scholes Value (as defined below) of the remaining unexercised portion of this Warrant on the date of the consummation of such Fundamental Transaction; provided, however, that, if the Fundamental Transaction is not within the Company’s control, including not approved by the Company’s Board of Directors, the Holder shall only be entitled to receive from the Company or any Successor Entity the same type or form of consideration (and in the same proportion), at the Black Scholes Value of the unexercised portion of this Warrant, that is being offered and paid to the holders of Common Stock of the Company in connection with the Fundamental Transaction, whether that consideration be in the form of cash, stock or any combination thereof, or whether the holders of Common Stock are given the choice to receive from among alternative forms of consideration in connection with the Fundamental Transaction; provided, further, that if holders of Common Stock of the Company are not offered or paid any consideration in such Fundamental Transaction, such holders of Common Stock will be deemed to have received common stock of the Successor Entity (which Entity may be the Company following such Fundamental Transaction) in such Fundamental Transaction. “Black Scholes Value” means the value of this Warrant based on the Black-Scholes Option Pricing Model obtained from the “OV” function on Bloomberg determined as of the day of consummation of the applicable Fundamental Transaction for pricing purposes and reflecting (A) a risk-free interest rate corresponding to the U.S. Treasury rate for a period equal to the time between the date of the public announcement of the applicable contemplated Fundamental Transaction and the Termination Date, (B) an expected volatility equal to the 30 day volatility as obtained from the HVT function on Bloomberg (determined utilizing a 365 day annualization factor) as of the Trading Day immediately following the public announcement of the applicable contemplated Fundamental Transaction, (C) the underlying price per share used in such calculation shall be the VWAP on the Trading Day of the Holder’s request pursuant to this Section 3(d), (D) a remaining option time equal to the time between the date of the public announcement of the applicable contemplated Fundamental Transaction and the Termination Date and (E) a zero cost of borrow. The payment of the Black Scholes Value will be made by wire transfer of immediately available funds (or such other consideration) within the later of (i) five Business Days of the Holder’s election and (ii) the date of consummation of the Fundamental Transaction. The Company shall cause any successor entity in a Fundamental Transaction in which the Company is not the survivor (the “Successor Entity”) to

assume in writing all of the obligations of the Company under this Warrant and the other Transaction Documents in accordance with the provisions of this Section 3(d) pursuant to written agreements in form and substance reasonably satisfactory to the Holder and approved by the Holder (without unreasonable delay) prior to such Fundamental Transaction and shall, at the option of the Holder, deliver to the Holder in exchange for this Warrant a security of the Successor Entity evidenced by a written instrument substantially similar in form and substance to this Warrant which is exercisable for a corresponding number of shares of capital stock of such Successor Entity (or its parent entity) equivalent to the shares of Common Stock acquirable and receivable upon exercise of this Warrant (without regard to any limitations on the exercise of this Warrant) prior to such Fundamental Transaction, and with an exercise price which applies the exercise price hereunder to such shares of capital stock (but taking into account the relative value of the shares of Common Stock pursuant to such Fundamental Transaction and the value of such shares of capital stock, such number of shares of capital stock and such exercise price being for the purpose of protecting the economic value of this Warrant immediately prior to the consummation of such Fundamental Transaction), and which is reasonably satisfactory in form and substance to the Holder. Upon the occurrence of any such Fundamental Transaction, the Successor Entity shall be added to the term "Company" under this Warrant (so that from and after the occurrence or consummation of such Fundamental Transaction, each and every provision of this Warrant and the other Transaction Documents referring to the "Company" shall refer instead to each of the Company and the Successor Entity or Successor Entities, jointly and severally), and the Successor Entity or Successor Entities, jointly and severally with the Company, may exercise every right and power of the Company prior thereto and the Successor Entity or Successor Entities shall assume all of the obligations of the Company prior thereto under this Warrant and the other Transaction Documents with the same effect as if the Company and such Successor Entity or Successor Entities, jointly and severally, had been named as the Company herein. For the avoidance of doubt, the Holder shall be entitled to the benefits of the provisions of this Section 3(d) regardless of (i) whether the Company has sufficient authorized shares of Common Stock for the issuance of Warrant Shares and/or (ii) whether a Fundamental Transaction occurs prior to the Initial Exercise Date.

2.No Further Amendment. Except as amended by this Amendment, the Original Warrant remains unaltered and shall remain in full force and effect.

3.Jurisdiction. All questions concerning the construction, validity, enforcement and interpretation of this Amendment shall be determined in accordance with the provisions of that certain Securities Purchase Agreement dated as of March 25, 2024, as amended, between the Company and the Holder.

4.Counterparts. This Amendment may be executed in any number of counterparts, each of which will be deemed an original and all of which together will constitute one and the same instrument. Signatures delivered by facsimile, electronic mail (including as a PDF file) or other transmission method shall be deemed to be original signatures, shall be valid and binding, and, upon delivery, shall constitute due execution of this Amendment.

(Signature page follows)

IN WITNESS WHEREOF, each of the Company and the Holder has caused this Amendment to be executed by its officer thereunto duly authorized as of the date first above indicated.

COMPANY:

MAIA BIOTECHNOLOGY, INC.

By: _____
Name: _____
Title: _____

HOLDER:

Name of Holder: _____

By: _____
Name: _____
Title: _____
Number of Warrant Shares: _____

**AMENDMENT NO. 1 TO
COMMON STOCK PURCHASE WARRANT**

This AMENDMENT NO. 1 TO COMMON STOCK PURCHASE WARRANT (this "Amendment") is entered into as of May __, 2024, by and between MAIA Biotechnology, Inc., a Delaware corporation (the "Company"), and such holder identified on the signature page hereto (the "Holder").

WHEREAS, the Holder is the holder of that certain Common Stock Purchase Warrant, issued as of April 25, 2024, to purchase that amount of shares of common stock of the Company, par value \$0.0001 per share set forth under its name on the signature page hereto (the "Warrant Shares") at a price per Warrant Share of \$2.26 (the "Original Warrant");

WHEREAS, pursuant to Section 5(l) of the Original Warrant, the Original Warrant may be modified or amended or the provisions thereof waived with the written consent of the Company and the Holder; and

WHEREAS, the Company and the Holder desire to amend the Original Warrant as set forth in this Amendment to allow the Original Warrant, as amended by the terms hereby, to be classified as equity on the Company's balance sheet.

NOW, THEREFORE, in consideration of the mutual agreements contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and intending to be legally bound hereby, the Company and the Holder hereby agree as follows:

1. Amendments

a. Section 2(c)—Cashless Exercise. Section 2(c) is hereby amended to delete the definition of "Bid Price" in its entirety.

b. Section 3(d)—Certain Adjustments—Fundamental Transaction. Section 3(d) is hereby amended and restated in its entirety as follows:

"d) Fundamental Transaction. If, at any time while this Warrant is outstanding, (i) the Company, directly or indirectly, in one or more related transactions effects any merger or consolidation of the Company with or into another Person, (ii) the Company (or any Subsidiary), directly or indirectly, effects any sale, lease, license, assignment, transfer, conveyance or other disposition of all or substantially all of the assets of the Company in one or a series of related transactions, (iii) any, direct or indirect, purchase offer, tender offer or exchange offer (whether by the Company or another Person) is completed pursuant to which holders of Common Stock are permitted to sell, tender or exchange their shares for other securities, cash or property and has been accepted by the holders of 50% or more of the voting power of the common equity of the Company, (iv) the Company, directly or indirectly, in one or more related transactions effects any reclassification, reorganization or recapitalization of the Common Stock or any compulsory share exchange pursuant to which the Common Stock is effectively converted into or exchanged for other securities, cash or property, or (v) the Company, directly or indirectly, in one or more related transactions consummates a stock or share purchase agreement or other business combination (including, without limitation, a reorganization, recapitalization, spin-off, merger or scheme of arrangement) with another Person or group of Persons whereby such other Person or group acquires more than 50% of the voting power of the common equity of the Company (each a "Fundamental

Transaction”), then, upon any subsequent exercise of this Warrant, the Holder shall have the right to receive, for each Warrant Share that would have been issuable upon such exercise immediately prior to the occurrence of such Fundamental Transaction, at the option of the Holder (without regard to any limitation in Section 2(e) on the exercise of this Warrant), the number of shares of Common Stock of the successor or acquiring corporation or of the Company, if it is the surviving corporation, and any additional consideration (the “Alternate Consideration”) receivable as a result of such Fundamental Transaction by a holder of the number of shares of Common Stock for which this Warrant is exercisable immediately prior to such Fundamental Transaction (without regard to any limitation in Section 2(e) on the exercise of this Warrant). For purposes of any such exercise, the determination of the Exercise Price shall be appropriately adjusted to apply to such Alternate Consideration based on the amount of Alternate Consideration issuable in respect of one share of Common Stock in such Fundamental Transaction, and the Company shall apportion the Exercise Price among the Alternate Consideration in a reasonable manner reflecting the relative value of any different components of the Alternate Consideration. If holders of Common Stock are given any choice as to the securities, cash or property to be received in a Fundamental Transaction, then the Holder shall be given the same choice as to the Alternate Consideration it receives upon any exercise of this Warrant following such Fundamental Transaction. Notwithstanding anything to the contrary, in the event of a Fundamental Transaction, the Company or any Successor Entity (as defined below) shall, at the Holder’s option, exercisable at any time concurrently with, or within 30 days after, the consummation of the Fundamental Transaction (or, if later, the date of the public announcement of the applicable Fundamental Transaction), purchase this Warrant from the Holder by paying to the Holder an amount of cash equal to the Black Scholes Value (as defined below) of the remaining unexercised portion of this Warrant on the date of the consummation of such Fundamental Transaction; provided, however, that, if the Fundamental Transaction is not within the Company’s control, including not approved by the Company’s Board of Directors, the Holder shall only be entitled to receive from the Company or any Successor Entity the same type or form of consideration (and in the same proportion), at the Black Scholes Value of the unexercised portion of this Warrant, that is being offered and paid to the holders of Common Stock of the Company in connection with the Fundamental Transaction, whether that consideration be in the form of cash, stock or any combination thereof, or whether the holders of Common Stock are given the choice to receive from among alternative forms of consideration in connection with the Fundamental Transaction; provided, further, that if holders of Common Stock of the Company are not offered or paid any consideration in such Fundamental Transaction, such holders of Common Stock will be deemed to have received common stock of the Successor Entity (which Entity may be the Company following such Fundamental Transaction) in such Fundamental Transaction. “Black Scholes Value” means the value of this Warrant based on the Black-Scholes Option Pricing Model obtained from the “OV” function on Bloomberg determined as of the day of consummation of the applicable Fundamental Transaction for pricing purposes and reflecting (A) a risk-free interest rate corresponding to the U.S. Treasury rate for a period equal to the time between the date of the public announcement of the applicable contemplated Fundamental Transaction and the Termination Date, (B) an expected volatility equal to the 30 day volatility as obtained from the HVT function on Bloomberg (determined utilizing a 365 day annualization factor) as of the Trading Day immediately following the public announcement of the applicable contemplated Fundamental Transaction, (C) the underlying price per share used in such calculation shall be the VWAP on the Trading Day of the Holder’s request pursuant to this Section 3(d), (D) a remaining option time equal to the time between the date of the public announcement of the applicable contemplated Fundamental Transaction and the Termination Date and (E) a zero cost of borrow. The payment of the Black Scholes Value will be made by wire transfer of immediately available funds (or such other consideration) within the later of (i) five Business Days of the Holder’s election and (ii) the date of consummation of the Fundamental Transaction. The Company shall cause any successor entity in a Fundamental Transaction in which the Company is not the survivor (the “Successor Entity”) to

assume in writing all of the obligations of the Company under this Warrant and the other Transaction Documents in accordance with the provisions of this Section 3(d) pursuant to written agreements in form and substance reasonably satisfactory to the Holder and approved by the Holder (without unreasonable delay) prior to such Fundamental Transaction and shall, at the option of the Holder, deliver to the Holder in exchange for this Warrant a security of the Successor Entity evidenced by a written instrument substantially similar in form and substance to this Warrant which is exercisable for a corresponding number of shares of capital stock of such Successor Entity (or its parent entity) equivalent to the shares of Common Stock acquirable and receivable upon exercise of this Warrant (without regard to any limitations on the exercise of this Warrant) prior to such Fundamental Transaction, and with an exercise price which applies the exercise price hereunder to such shares of capital stock (but taking into account the relative value of the shares of Common Stock pursuant to such Fundamental Transaction and the value of such shares of capital stock, such number of shares of capital stock and such exercise price being for the purpose of protecting the economic value of this Warrant immediately prior to the consummation of such Fundamental Transaction), and which is reasonably satisfactory in form and substance to the Holder. Upon the occurrence of any such Fundamental Transaction, the Successor Entity shall be added to the term "Company" under this Warrant (so that from and after the occurrence or consummation of such Fundamental Transaction, each and every provision of this Warrant and the other Transaction Documents referring to the "Company" shall refer instead to each of the Company and the Successor Entity or Successor Entities, jointly and severally), and the Successor Entity or Successor Entities, jointly and severally with the Company, may exercise every right and power of the Company prior thereto and the Successor Entity or Successor Entities shall assume all of the obligations of the Company prior thereto under this Warrant and the other Transaction Documents with the same effect as if the Company and such Successor Entity or Successor Entities, jointly and severally, had been named as the Company herein. For the avoidance of doubt, the Holder shall be entitled to the benefits of the provisions of this Section 3(d) regardless of (i) whether the Company has sufficient authorized shares of Common Stock for the issuance of Warrant Shares and/or (ii) whether a Fundamental Transaction occurs prior to the Initial Exercise Date.

2. No Further Amendment. Except as amended by this Amendment, the Original Warrant remains unaltered and shall remain in full force and effect.

3. Jurisdiction. All questions concerning the construction, validity, enforcement and interpretation of this Amendment shall be determined in accordance with the provisions of that certain Securities Purchase Agreement dated as of April 22, 2024, as amended, between the Company and the Holder.

4. Counterparts. This Amendment may be executed in any number of counterparts, each of which will be deemed an original and all of which together will constitute one and the same instrument. Signatures delivered by facsimile, electronic mail (including as a PDF file) or other transmission method shall be deemed to be original signatures, shall be valid and binding, and, upon delivery, shall constitute due execution of this Amendment.

(Signature page follows)

IN WITNESS WHEREOF, each of the Company and the Holder has caused this Amendment to be executed by its officer thereunto duly authorized as of the date first above indicated.

COMPANY:

MAIA BIOTECHNOLOGY, INC.

By: _____
Name: _____
Title: _____

HOLDER:

Name of Holder: _____

By: _____
Name: _____
Title: _____
Number of Warrant Shares: _____

**CERTIFICATION PURSUANT TO
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934, AS
ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY
ACT OF 2002**

I, Vlad Vitoc, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of MAIA Biotechnology, 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(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

(a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

(b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

(c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

(d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

(a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 14, 2024

By: /s/ Vlad Vitoc
Vlad Vitoc
Chairman and Chief Executive Officer
(Principal Executive Officer)

**CERTIFICATION
PURSUANT TO
RULES 13a-14(a) AND 15d-14(a) UNDER THE SECURITIES EXCHANGE ACT OF 1934,
AS ADOPTED PURSUANT TO SECTION 302 OF THE SARBANES-OXLEY
ACT OF 2002**

I, Jeffrey C. Himmelreich, certify that:

1. I have reviewed this Quarterly Report on Form 10-Q of MAIA Biotechnology, 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(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

(a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

(b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

(c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

(d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

(a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 14, 2024

By: /s/ Jeffrey C. Himmelreich
Jeffrey C. Himmelreich
Head of Finance
(Principal Financial Officer)

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

In connection with the Quarterly Report of MAIA Biotechnology, Inc. (the "Company") on Form 10-Q for the period ended March 31, 2024 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Vlad Vitoc, Chief Executive Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

1. The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; 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: May 14, 2024

By: /s/ Vlad Vitoc
Vlad Vitoc
Chairman and Chief Executive Officer
(Principal Executive Officer)

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

In connection with the Quarterly Report of MAIA Biotechnology, Inc. (the "Company") on Form 10-Q for the period ended March 31, 2024 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Joseph F. McGuire, Chief Financial Officer of the Company, certify, pursuant to 18 U.S.C. § 1350, as adopted pursuant to § 906 of the Sarbanes-Oxley Act of 2002, that to my knowledge:

1. The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; 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: May 14, 2024

By: /s/ Jeffrey C. Himmelreich
Jeffrey C. Himmelreich
Head of Finance
(Principal Financial Officer)
