UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

Current Report

Pursuant to Section 13 or 15(d) of The Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): October 24. 2025

MAIA Biotechnology, Inc.

(Exact name of registrant as specified in its charter) 001-41455

(Commission

83-1495913

(IRS Employer

Name of each exchange on which registered

NYSE American

of incorporation)	File Number)	Identification No.)
444 West Lake Street, Suite 1700 Chicago, IL (Address of principal executive offices)		60606 (Zip Code)
(Reg	(312) 416-8592 gistrant's telephone number, including area code)	
Check the appropriate box below if the Form 8-K filing is intend	led to simultaneously satisfy the filing obligation of	the registrant under any of the following provisions:
☐ Written communications pursuant to Rule 425 under the Sec	curities Act (17 CFR 230.425)	
☐ Soliciting material pursuant to Rule 14a-12 under the Excha	nge Act (17 CFR 240.14a-12)	
☐ Pre-commencement communications pursuant to Rule 14d-2	2(b) under the Exchange Act (17 CFR 240.14d-2(b))	
☐ Pre-commencement communications pursuant to Rule 13e-4	4(c) under the Exchange Act (17 CFR 240.13e-4(c))	
Securities registered pursuant to Section 12(b) of the Act:		

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (17 CFR §230.405) or Rule 12b-2 of the Securities Exchange Act of 1934 (17 CFR §240.12b-2).

Trading Symbol(s)

MAIA

Emerging growth company ⊠

Delaware

(State or other jurisdiction

Title of each class Common Stock

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. \square

Item 8.01 Regulation FD Disclosure.

MAIA Biotechnology, Inc. (the "Company") has prepared a poster (the "Poster") entitled "Presentation 1: A Phase 2 Study of Ateganosine (THIO; 6-thio-2'-deoxyguanosine) in Combination with Immune Checkpoint Inhibitor (ICI) in Patients with Advanced Non-Small Cell Lung Cancer (NSCLC) Resistant to Prior ICI and Chemotherapy: THIO-101 Trial." The Poster was presented at the AACR-NCI-EORTC International Conference on Molecular Targets and Cancer Therapeutics in Boston, Massachusetts on October 24, 2025 and posted to the Company's website on such date. A copy the Poster is filed as Exhibit 99.1 to this Current Report on Form 8-K and is hereby incorporated by reference.

The Poster contains forward-looking statements, and as a result, investors should not place undue reliance on these forward-looking statements.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit No.	Description	
99.1	Poster	
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)	
	2	

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 hereunto duly authorized.

Dated: October 24, 2025

MAIA BIOTECHNOLOGY, INC.

By: /s/ Vlad Vitoc
Name: Vlad Vitoc

Title: Chief Executive Officer

3

Abstract

A Phase 2 Study of Ateganosine (THIO; 6-thio-2'-deoxyguanosine) in Combination with Immune Checkpoint Inhibitor (ICI) in Patients with Advanced Non-Small Cell Lung Cancer (NSCLC) Resistant to Prior ICI and Chemotherapy: THIO-101 Trial in Progress

V. Muller, T. Jankowski, ² M. Kowal-Rosinska, ³ T. Csoszi, ⁴ L. Urban, ⁵ T. Nagy, ⁴ R. Ramlau, ⁷ M. Cholakova, ⁴ N. Chilingirova, ⁵ S. M. Kotlarski, ⁵² M.R. Girotti, ⁵³ L. Mender, ⁵⁴ M. V. Mitsunaga, ¹⁴ O. Tudos, ¹⁶ M. Fallor, ⁵⁴ V. Vitoc, ¹⁴ S. Gryaznov, ¹⁴ V. Za

(M) MAIA

01 Introduction

04 Study Design

Angenoise (TFL) G-the 2⁻-decopparation in the control of the con

- Using a modified 3+3 design, the safety lead-in (Part A) enrolled 10 patients who received Ateginosine 360 mg N (120 mg QD, D1-3), followed by 350 mg cemplimab on D5, Q3W. Following completion of Part A, enrollment was opened in the dose-finding portion of the study (Part B).
- study Plan B.

 Using a Simon 2 chapt design, 79 patients were assigned to one of the Asignmoine doses: 380, 180, or 60 mg followed by complimab COW for up to 1 year in Part B.

 Disease statum is assessed at Cycle 3 Day 1, Cycle 5 Day 1 and every 9 12 weeks thematter. An expansion control stanted based on date from Plant B; up to 48 patients in Part C; one am with the combination of Asignmoiser's recemplimatio, one am with Asignmoiser as an omnotherapy) and up 10 Digettiest as planted in Part D.

CTCs were labeled with TRF1 and yH2AX to detect telome TIF fraction in CTCs were measured using flow cytometry.

03 Pharmacodynamics (PD) and Pharmacokinetics (PK) Pharmacodynamics (Parts A, B, C and D) and Pharmacokinetics (Parts C and D) analysis for THIO-101

- solvintés parameters:

 Assignations concentration levels and PC parameters (Full PC colocción for Part i and limited RC colocción for Part i and limited RC colocción for Part i and limited RC colocción for Part i Perfamencolynamic parameters and Biomanders (PD):

 187 (Islamme dynharition induced des (information in CICs i CICs ventualistand OFIL) corperation

 Limited techniques (PCI) (1) statistical by the spreasion of information in RNA), by ISH
 TRIM (in this high destination (TRIM) of parameter emblication samples.

Figure 1. THIO-101 study schema. Safety Efficacy/Safety/Dose Selection Ateganosine 60mg+ cemiplimab ganosine 360mg + cemiplimab Part D Planned

Secondary endpoints: DoR; PFS; OS.

Exploratory endpoints: PK and PD (activity of Ategan

Primary endpoints: Safety, ORR, DCR (CR, PR and SD).

- THIO-101 Part A (Completed enrollment, N=10)

 Modified 313 design
 Safety lead-in study of Ateganosine 360 mg per cycle (120 mg on Days
 1-3, sequenced with cemiplimab). THIO-101 Part C (Enrollment initiated, up to N = 48)

 Randomized, Simon's 2-stage in each arm

 Arm 1: Ateganosine 180 mg/cycle (60 mg IV on D1-3) sequenced with
- 180-194 Fix 1 Van-Mandheimed, Simon's 2-dage in each arm

 Am 1. Regalosises 150 mg/cycle (50 mg/ ven D1.3) sequenced with

 compliance of the Denglycycle (50 mg/ ven D1.3)

 Simon 194 mg/cycle (50 mg/ ven D1.3)

 Olgoches, 1 Sondards the efficies, and safety of deganosite 150 mg

 reg cycle sequenced with enrepliance command with single-agent

 Aleganosises 150 mg/per cycle sa third-line teatment in

 advanced/meriastastic/SICC patients that are resistant to

 chemotherapy and C1.

- with 79 patients.
 The optimal dose of Ateganosine
 180mg was selected in Nov'23 based
 on evaluations of safety, tolerability,
- on evaluations of safety, tolerability, and efficacy, and efficacy, and efficacy, at the time of data cut-off (June 30, 2025), the observed Median Overall Sourvial (OS) was a 17.8 months in third-line NSCLC patients that are resistant to chemotherapy and ICL. In addition, the observed Overall Response Rate (ORR) was at 30% in the intent-to-treat population (3/10).
- Patient enrollment for Part C started in Jul'25, with the first patient dosed in Taiwan
- The trial is planned to enroll patients in

THIO-101 Part D (Planned, N = 100)

- Single-Ami Efficacy Cohort

Aragemosite: 100 may/cscl (6) ting (V on D1-3) sequenced with
compliants.

- Single-Ami Efficacy Cohort

- Single-Ami Efficacy and safety of Asagemosites 180 mg
per cycle sequenced with compliants as that dient tentement in
advanced/metastatic (NSCIC patients that are resistant to
chemotherapy and ICI.

Treatment with Ateganosine alone leads to a significant induction in TIF formation in CTCs. This potentially highlights the utility of telomere DNA damage as a blomarker for monitoring the pharmacodynamic (PD) effects of Ateganosine treatment. Additional biomarker studies from Parts C and D will be conducted as the trial continues.

Following the completion of Parts A and B of THIO-101, an expansion of the study was warranted to further validate the safety and efficacy observed with the selected dose of Ateganosine 180mg.

The median observed Overall Survival (OS) in advanced third-line NSCLC patients who are resistant to prior treatment with ICl and chemotherapy was 17.8 months at the data cut-off (June 30, 2025).

The Indicates and the Indicate and the Indicate and the Indicate and Indicate and Indicate and Indicate assembles will be collected for longitudinal exposure-response assessments. The levels of Ateganosine and 6-10 in human plasma will be determined using a CIP-validated Liquid Chromatography Tandern Mass Spectrometry (I.C-MS/MS) method.

07 Conclusions

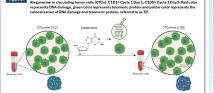
Acknowledgements

This study is sponsored by MAIA Biotechnology, if
The authors would like to thank the patients and in
The sponsor would like to send a special thanks to
exceptional contribution to this study.





Pharmacodynamic biomarker Telomere dysfunction-Induced foci (TIF) 06 Biomarker findings from THIO-101 ongoing Phase 2 study



C1D1 = Cycle 1 Day 1 C1D5 = Cycle 1 Day 5

ced foci (TIF)-positive CTCs were characterized as TRF1+/gammaH2AX+fraction in