

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

FORM S-8

REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

PASITHEA THERAPEUTICS CORP.

(Exact name of registrant as specified in its charter)

Delaware(State or other jurisdiction of
incorporation or organization)**85-1591963**(I.R.S. Employer
Identification Number)**1111 Lincoln Road, Suite 500****Miami Beach, Florida 33139**

(Address of principal executive offices) (Zip code)

Pasithea Therapeutics Corp. 2023 Stock Incentive Plan

(Full title of the plan)

Dr. Tiago Reis Marques**Chief Executive Officer****Pasithea Therapeutics Corp.****1111 Lincoln Road, Suite 500****Miami Beach, Florida 33139**

(Name and address of agent for service)

Tel: (786) 977-3380

(Telephone number, including area code, of agent for service)

*With a copy to:***James O'Grady, Esq.**

Lowenstein Sandler LLP

1251 Avenue of the Americas

New York, New York 10020

Tel: (212) 262-6700

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

☐

Accelerated filer

☐

Non-accelerated filer

☒

Smaller reporting company

☒

Emerging growth company

☒

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 7(a)(2)(B) of the Securities Act. ☐

EXPLANATORY NOTE

This Registration Statement is being filed by the registrant, Pasithea Therapeutics Corp. (the “Company”), for the purpose of registering an additional 1,750,000 shares of common stock, par value \$0.0001 per share, of the Company, to be issued under the Pasithea Therapeutics Corp. 2023 Stock Incentive Plan (as amended, effective as of September 3, 2025) (the “2023 Plan”), pursuant to General Instruction E on Form S-8 (Registration of Additional Securities).

The contents of the original registration statement on [Form S-8](#) for the 2023 Plan filed on March 29, 2024 (File No. 333-278386) are hereby incorporated by reference and made a part hereof. Any items in the Company’s Registration Statement on Form S-8 (File No. 333-278386) not expressly changed hereby shall be as set forth in the Company’s Registration Statement on Form S-8 (File No. 333-278386). The stockholders of the registrant approved amending the 2023 Plan for this purpose at the annual meeting of stockholders held on September 3, 2025.

PART II
INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 3. Incorporation of Certain Documents by Reference

The Securities and Exchange Commission allows us to “incorporate” into this registration statement information we file with other documents. This means that we may disclose important information to you by referring to other documents that contain that information. The information incorporated by reference is considered to be part of this registration statement, and information we file later with the Securities and Exchange Commission will automatically update and supersede this information. We incorporate by reference the documents listed below, except to the extent information in those documents is different from the information contained in this registration statement:

- Our Annual Report on [Form 10-K](#) for the year ended December 31, 2024, filed on March 24, 2025.
- Our Quarterly Report on [Form 10-Q](#) for the quarterly period ended March 31, 2025, filed on May 15, 2025.
- Our Quarterly Report on [Form 10-Q](#) for the quarterly period ended June 30, 2025, filed on August 14, 2025.
- Our Current Reports on Form 8-K filed with the Securities and Exchange Commission on [April 25, 2025](#), [May 7, 2025](#), [June 20, 2025](#), [June 27, 2025](#), [July 11, 2025](#) and [September 3, 2025](#) (except to the extent furnished but not filed).
- The description of the Company’s common stock contained in the Company’s Registration Statement on [Form 8-A](#) (Registration No. 001-40804) filed with the Securities and Exchange Commission on September 13, 2021 under Section 12(b) of the Exchange Act, including any amendments or reports filed for the purpose of updating such description, including [Exhibit 4.7](#) to the Company’s Annual Report on [Form 10-K](#) for the year ended December 31, 2023, filed with the Securities and Exchange Commission on March 29, 2024.

All documents subsequently filed by us with the Securities and Exchange Commission pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act, prior to the filing of a post-effective amendment to this registration statement, which indicates that all securities offered hereby have been sold or which deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference in this registration statement and to be a part hereof from the date of filing of such documents, except as to specific sections of such documents as set forth therein. Any statement contained in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained in any subsequently filed document, which also is deemed to be incorporated by reference herein, modifies or supersedes such statement.

Item 8. Exhibits

The exhibits accompanying this registration statement are listed on the accompanying exhibit index.

EXHIBIT INDEX

Exhibit Number	Description
5.1	<u>Opinion of Lowenstein Sandler LLP*</u>
10.1	<u>Pasithea Therapeutics Corp. 2023 Stock Incentive Plan (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed on December 19, 2023)</u>
10.2	<u>Amendment to the Pasithea Therapeutics Corp. 2023 Stock Incentive Plan (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed on September 3, 2025)</u>
23.1	<u>Consent of CBIZ CPAs P.C., Independent Registered Public Accounting Firm of Pasithea Therapeutics Corp.*</u>
23.2	<u>Consent of Lowenstein Sandler LLP (filed as part of Exhibit 5.1)*</u>
24.1	<u>Power of Attorney (contained on signature page to this registration statement on Form S-8)*</u>
107	<u>Filing Fee Table*</u>

* Filed herewith.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Miami Beach, State of Florida, on September 9, 2025.

PASITHEA THERAPEUTICS CORP.

By: /s/ Dr. Tiago Reis Marques
Name: Dr. Tiago Reis Marques
Title: Chief Executive Officer and Director

KNOW ALL BY THESE PRESENTS that each individual whose signature appears below constitutes and appoints Dr. Tiago Reis Marques and Daniel Schneiderman, and each of them singly, as such person's true and lawful attorney-in-fact and agent with full power of substitution and resubstitution, for such person in such person's name, place and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this Registration Statement, and to file the same, with all exhibits thereto, and all documents in connection therewith, with the Securities and Exchange Commission, granting unto each said attorney-in-fact and agent full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as such person might or could do in person, hereby ratifying and confirming all that any said attorney-in-fact and agent, or any substitute or substitutes of any of them, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities and on the date indicated.

Signature	Title	Date
<u>/s/ Dr. Tiago Reis Marques</u> Dr. Tiago Reis Marques	Chief Executive Officer and Director (Principal Executive Officer)	September 9, 2025
<u>/s/ Daniel Schneiderman</u> Daniel Schneiderman	Chief Financial Officer (Principal Financial Officer and Principal Accounting Officer)	September 9, 2025
<u>/s/ Prof. Lawrence Steinman</u> Prof. Lawrence Steinman	Director	September 9, 2025
<u>/s/ Simon Dumesnil</u> Simon Dumesnil	Director	September 9, 2025
<u>/s/ Dr. Emer Leahy</u> Dr. Emer Leahy	Director	September 9, 2025
<u>/s/ Alfred Novak</u> Alfred Novak	Director	September 9, 2025



September 9, 2025

Pasithea Therapeutics Corp.
1111 Lincoln Road, Suite 500
Miami Beach, Florida 33139

Re: Form S-8 Registration Statement of Pasithea Therapeutics Corp.

We have acted as counsel to Pasithea Therapeutics Corp., a Delaware corporation (the “Company”), in connection with the Company’s filing on the date hereof with the Securities and Exchange Commission (the “SEC”) of a Registration Statement on Form S-8 (the “Registration Statement”) under the Securities Act of 1933, as amended (the “Securities Act”). The Registration Statement relates to the registration of an additional 1,750,000 shares (the “Shares”) of the Company’s common stock, par value \$0.0001 per share (the “Common Stock”), issuable pursuant to the Pasithea Therapeutics Corp. 2023 Stock Incentive Plan (as amended, effective as of September 3, 2025) (the “2023 Plan”).

In connection with rendering this opinion, we have examined the 2023 Plan and the amendment thereto and such corporate records, certificates and other documents and such questions of law as we have considered necessary and appropriate for the purposes of this opinion. In such examination, we have assumed the genuineness of all signatures, the legal capacity of all natural persons, the authenticity of all documents submitted to us as originals, the conformity of original documents of all documents submitted to us as certified, conformed or photostatic copies and the authenticity of the originals of such latter documents. As to any facts material to our opinion, we have, when relevant facts were not independently established, relied upon the Registration Statement and the aforesaid records, certificates and documents.

We assume that the Company has sufficient unissued and unreserved shares of Common Stock (or will validly amend its certificate of incorporation, to authorize a sufficient number of shares of Common Stock prior to the issuance thereof) available for issuance as provided in the Registration Statement and any related amendment thereto or prospectus supplement.

Based on the foregoing, and subject to the qualifications stated herein, we are of the opinion that the Shares, upon issuance and delivery as contemplated by the 2023 Plan, will be validly issued, fully paid and nonassessable outstanding shares of Common Stock.

The opinion expressed herein is limited to the corporate laws of the State of Delaware, as in effect on the date hereof, and we express no opinion as to the effect on the matters covered by this letter of the laws of any other jurisdiction. We assume no obligation to advise you of facts or circumstances that come to our attention or changes in law that occur which could affect the opinions contained herein.

We hereby consent to the filing of this opinion as an exhibit to the Registration Statement and to the references to this firm in the Registration Statement. In giving such consent, we do not thereby admit that we are in the category of persons whose consent is required under Section 7 of the Securities Act, or the rules and regulations of the SEC thereunder.

Very truly yours,

/s/ Lowenstein Sandler LLP

Lowenstein Sandler LLP

INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM'S CONSENT

We consent to the incorporation by reference in this Registration Statement on Form S-8 of our report dated March 24, 2025, with respect to the consolidated financial statements of Pasithea Therapeutics Corp. for the year ended December 31, 2024 included in the Annual Report on Form 10-K.

/s/ Marcum LLP

Marcum LLP
Hartford, CT
September 9, 2025

CALCULATION OF FILING FEE TABLES

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Pasithea Therapeutics Corp.

Table 1: Newly Registered and Carry Forward Securities

Line Item Type	Security Type	Security Class Title	Notes	Fee Calculation Rule	Amount Registered	Proposed Maximum Offering Price Per Unit	Maximum Aggregate Offering Price	Fee Rate	Amount of Registration Fee
<i>Newly Registered Securities</i>									
Fees to be Paid	Equity	Common Stock, \$0.0001 par value per share	(1)	Other	1,750,000	\$ 0.7945	\$ 1,390,375.00	0.0001531	\$ 212.87
Total Offering Amounts:							\$ 1,390,375.00		212.87
Total Fees Previously Paid:									
Total Fee Offsets:									0.00
Net Fee Due:									<u>\$ 212.87</u>

Offering Note(s)

- (1) Pursuant to Rule 416(a) under the Securities Act of 1933, as amended (the “Securities Act”), this Registration Statement shall also cover any additional shares of Pasithea Therapeutics Corp.’s (the “Company”) common stock that become issuable under the Company’s 2023 Stock Incentive Plan in respect of the securities identified in the above table by reason of any stock dividend, stock split, recapitalization, or other similar transaction effected without the Company’s receipt of consideration that increases the number of the outstanding shares of the Company’s common stock.

Pursuant to Rules 457(c) and (h) under the Securities Act, the proposed maximum offering price per share and the proposed maximum aggregate offering price are estimated for the purpose of calculating the amount of the registration fee and are based on the average of the high and low sales price of the Company’s common stock as reported on the Nasdaq Stock Market on August 29, 2025.

The Company does not have any fee offsets.