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**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person * <u>Murphy Keith</u>  (Last) (First) (Middle) C/O MATINAS BIOPHARMA HOLDINGS, INC. 1545 ROUTE 206, SUITE 302  (Street) BEDMINSTER NJ 07921  (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 03/11/2025	3. Issuer Name and Ticker or Trading Symbol <u>Matinas BioPharma Holdings, Inc. [ MTNB ]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable)  <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)	5. If Amendment, Date of Original Filed (Month/Day/Year)  6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Beneficially Owned**

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
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**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			

Explanation of Responses:

**Remarks:**

[Exhibit 24-Power of Attorney](#)

No securities are beneficially owned.

/s/ Keith A. Kucinski, Attorney-in-Fact 03/17/2025

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

\* If the form is filed by more than one reporting person, see Instruction 5 (b)(v).

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.

**POWER OF ATTORNEY**

Know all by these present, that the undersigned hereby constitutes and appoints each of Jerome D. Jabbour, Keith A. Kucinski, and Michael J. Lerner their true and lawful attorney-in-fact to, exclusively for matters related to Matinas Biopharma Holdings, Inc. and any successor or subsidiary entity:

1. execute for and on behalf of the undersigned Schedules 13D and 13G and Forms 3, 4 and 5 in accordance with Sections 13 and 16(a) of the Securities Exchange Act of 1934 (the "Exchange Act") and the rules thereunder;
2. do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete the execution of any such Schedules 13D or 13G and Forms 3, 4 or 5, and the timely filing of such Forms with the United States Securities and Exchange Commission and any other authority; and
3. take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, including, without limitation, the execution and filing of a Form 4 with respect to a transaction which may be reported on a Form 5, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in their discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform all and every act and thing whatsoever requisite, necessary and proper to be done in the exercise of any of the rights and powers herein granted, as fully and to all intents and purposes as they might or could do in person, with full power of substitution and resubstitution, hereby ratifying and confirming all that such attorney-in-fact, or their substitute or substitutes, shall lawfully do or cause to be done by virtue of this Power of Attorney and the rights and powers herein granted. The undersigned acknowledges that the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming any of the undersigned's responsibilities to comply with Sections 13 and 16 of the Exchange Act.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file any Schedules 13D and 13G and Forms 3, 4 and 5 in accordance with Sections 13 and 16(a) of the Exchange Act and the rules thereunder with respect to the undersigned's holdings of and transactions in securities issued by Matinas BioPharma Holdings, Inc., unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of March 17, 2025.

*/s/ Keith Murphy*

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Keith Murphy

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