FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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STATEMENT OF CHANGES IN 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

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(Print or Type Responses) 1. Name and Address of Reporting Person* Hoover Thomas				2. Issuer Name and Ticker or Trading Symbol Matinas BioPharma Holdings, Inc. [MTNB]						5	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last) (First) (Middle) C/O MATINAS BIOPHARMA HOLDINGS, INC., 1545 ROUTE 206, SUITE 302				3. Date of Earliest Transaction (Month/Day/Year) 12/14/2021							X Officer (give title below) Other (specify below) Chief Business Officer				
(Street)				4. If Amendment, Date Original Filed(Month/Day/Year)						6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person _ Form filed by More than One Reporting Person					
BEDMINSTER, NJ 07921 (City) (State) (Zip)			Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned												
1.Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Year			2A. Deemed Execution Date, if		ed 3 Date, if	3. Transaction		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Ber Owned Following Reported Transaction(s) (Instr. 3 and 4)		neficially	Ownership of Sorm: Direct (D) or Indirect	. Nature f Indirect Beneficial Ownership Instr. 4)	
							Coo	de V	Amount (A) o	Price				(I) (Instr. 4)	
Security	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if	(e.g., puts, 4. Transaction Code		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4,		guired, Disposed of, or Ber s, options, convertible secu 6. Date Exercisable and Expiration Date (Month/Day/Year)				Derivative Security	9. Number of Derivative Securities Beneficially Owned Following Reported	f 10. Ownersh Form of Derivativ Security: Direct (I or Indire	Beneficial Ownershi (Instr. 4)
				Code	v	and 5)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		Transaction((Instr. 4)	(S) (I) (Instr. 4)	
Stock Option (right to Buy)	\$ 0.92	12/14/2021		A	•	850,000		(1)	12/13/203	Comm Stock	on 850,000	\$ 0	850,000	D	
Repor	ting O	wners													
							Rela	ationships							
Reporting Owner Name / Address				Director	Director 10% Owner Officer		ficer	cer Ot							
Hoover Thomas C/O MATINAS BIOPHARMA HOLDINGS, INC.							C	Chief Business Officer							

Signatures

1545 ROUTE 206, SUITE 302 BEDMINSTER, NJ 07921

/s/ Keith A. Kucinski, Attorney-in-Fact	12/15/2021
Signature of Reporting Person	Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(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).
- (1) The option award was made in accordance with the terms of the Issuer's Amended and Restated 2013 Equity Incentive Plan. The option vests as to 25% of the shares on December 14, 2022 with the remaining shares to vest in equal monthly installments on the last day of each month over a period of 36 months commencing December 31, 2022.

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

Potential persons who are to respond to the collection of information contained in this form are no	ot required to respond unless the form displays a currently valid OMB number.