## 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

	OMB APPROVA	۱L

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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

msuu	ction 1(b).						JP	1 100 01	. 17 .0								
(Print or Ty	pe Response	s)															
1. Name and Address of Reporting Person* MANNINO RAPHAEL J  (Last) (First) (Middle) C/O MATINAS BIOPHARMA HOLDINGS, INC., 1545 ROUTE 206 SOUTH, SUITE 302			Issuer Name and Ticker or Trading Symbol     Matinas BioPharma Holdings, Inc. [MTNB]     3. Date of Earliest Transaction (Month/Day/Year)     12/14/2021						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner								
										X Officer (give title below) Other (specify below)  Chief Scientific Officer							
(Street) BEDMINSTER, NJ 07921			4. If Amendment, Date Original Filed(Month/Day/Year)						6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting PersonForm filed by More than One Reporting Person								
(Cit		(State)	(Zip)	Table I - Non-Derivative Secu			vative Securiti	es Acqui	quired, Disposed of, or Beneficially Owned								
1.Title of S (Instr. 3)	Security		2. Transaction Date (Month/Day/Year	r) any	tion	Date, if C		8) (A	Securities Accade or Disposed Instr. 3, 4 and 5	of (D)	Owne Trans		ecurities Berng Reported		6. Owner Form: Direct or Indi (I) (Instr.	ship of Be (D) Ow rect (In	Nature Indirect neficial vnership sstr. 4)
1. Title of Derivative Conversion Security Or Exercise (Month/Day/Year) 3. Transaction Date Execution Date any		3A. Deemed Execution Date, if	(e.g., puts, of the control of the c		5. Number of		(Month/Day/Year)		eficially (	Owned  and Amount erlying les			9. Number o	of 10. Ow For Der Sec Dir	vnership rm of rivative curity: rect (D) Indirect	Beneficia Ownersh (Instr. 4)	
				Code	V	(A)	, (D)	Date Exercisable	Expiration Date	Title	1	Amount or Number of Shares		Transaction(s (Instr. 4)	(s) (I)	str. 4)	
Stock Option (right to Buy)	\$ 0.92	12/14/2021		A		275,000	. /	(1)	12/13/2031	Comn		275,000	\$ 0	275,000	)	D	
Repor	ting O	wners															
			Relationships														
Reporting Owner Name / Address		Director 10% Owner			Of	ficer	Other										

### **Signatures**

MANNINO RAPHAEL J

BEDMINSTER, NJ 07921

/s/ Keith A. Kuci	nski	12/15/2021
Signature of Reporting Po	erson	Date

1545 ROUTE 206 SOUTH, SUITE 302

C/O MATINAS BIOPHARMA HOLDINGS, INC.

## **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.

Chief Scientific Officer

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.