

UNITED STATES SECURITIES AND EXCHANGE **COMMISSION**

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF

OMB APPROVAL					
OMB	3235-				
Number:	0104				
Estimated average					
burden hours per	•				
response	0.5				

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

Name and Address of Reporti Person * Kling Douglas F	2. Date of Event Requiri Statement (Month/Day/Year)		M	3. Issuer Name and Ticker or Trading Symbol Matinas BioPharma Holdings, Inc. [MTNB]					
<u> </u>	fiddle) MA	03/01/2017		erson(s) to Is	all applicable	5. If Amendment, Date Original Filed(Month/Day/Year)			
(Street) BEDMINSTER, NJ 07921				_X_Officer (giveOther (specify title below)			6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person _ Form filed by More than One Reporting Person		
(City) (State)	(Zip)	Tab	le I - Non	-Derivati	ve Securiti	es Be	neficially	Owned	
(Instr. 4)			mount of Securities ficially Owned r. 4)		3. Ownership Form: Direc (D) or Indirect (I) (Instr. 5)	m: Direct (Instr. 5)			
	Common Stock, par value \$0.0001 per share 80		,000		ъ				
Reminder: Report on a separate	line for each c	lass of securition	es beneficia	-	·			SEC 1473 (7-0)	
Reminder: Report on a separate Persons vanot requirements number.	line for each cl who respond red to respo	lass of securition to the colle nd unless the	es beneficia ction of in e form dis	formation plays a cu	irectly or ind contained irrently vali	in thi d OM	s form are IB control		
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Reporting Owner Name / Address		Relationships				
		10% Owner	Officer	Other		
Kling Douglas F C/O MATINAS BIOPHARMA HOLDINGS, INC. 1545 ROUTE 206 SOUTH, SUITE 302 BEDMINSTER, NJ 07921			See Remarks			

Signatures



Explanation of Responses:

- * 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).
 - The option award was made in accordance with the terms of the issuer's Matinas BioPharma Holdings, Inc. Amended and Restated 2013
- (1) Equity Incentive Plan (the "2013 Plan"). The option vests in equal monthly installments over a period of 36 months commencing on March 12, 2015. The exercise price is based on the average of the closing bid and asked prices for the shares of the Common Stock on the OTC.QB on the date of grant in accordance with the terms of the 2013 Plan.
- The option award was made in accordance with the terms of the issuer's Matinas BioPharma Holdings, Inc. Amended and Restated 2013

 (2) Equity Incentive Plan. The option vests in equal monthly installments over a period of 36 months commencing on February 15, 2016. The exercise price is based on the average of the closing bid and asked prices for the shares of the Common Stock on the OTC.QB on the date of grant in accordance with the terms of the 2013 Plan.
- The option award was made in accordance with the terms of the issuer's Matinas BioPharma Holdings, Inc. Amended and Restated 2013
- (3) Equity Incentive Plan. The option vests in equal monthly installments over a period of 36 months commencing on February 21, 2017. The exercise price is based on the average of the closing bid and asked prices for the shares of the Common Stock on the OTC.QB on the date of grant in accordance with the terms of the 2013 Plan.

Remarks:

SVP, Clinical Development and Project Management. Exhibit 24 - Power of Attorney

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 not required to respond unless the form displays a currently valid OMB number.

POWER OF ATTORNEY

Know all by these presents, that the undersigned hereby constitutes and appoints each of Jerome D. Jabbour, Gary Gaglione, Michael J. Lerner and Meredith Prithviraj his true and lawful attorney-in-fact to:

- 1. execute for and on behalf of the undersigned Schedules 13D and 13G, Form ID, 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, Form ID application for EDGAR codes, 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 his 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 he might or could do in person, with full power of substitution and resubstitution, hereby ratifying and confirming all that such attorney-in-fact, or his 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 this 1st day of March, 2017.

/s/ Douglas F. Kling By: Douglas F. Kling