FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, I	D.C.	20549
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	OMB APPROVAL									
	OMB Number:	3235-0287								
	Estimated average burden									
- 1	hours per response:	0.5								

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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 Reporting Person* Mathers Edward T				2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]							5. Relationship of Reportin (Check all applicable) X Director Officer (give title			ng Person(s) to Iss 10% Ov Other (s		wner				
(Last) (First) (Middle) 1954 GREENSPRING DRIVE SUITE 600				3. Date of Earliest Transaction (Month/Day/Year) 06/09/2011									below)			below)`				
(Street) TIMONI (City)			21093 (Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Ind Line)	Form fi	dual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person					
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D				Execution Date,			Code (In	Transaction Disposed Of (D) (Instr. 3, Code (Instr. 5)						es Form ally (D) (Following (I) (II		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
							Code	V	Amount	t (A) or (D)		rice	Transact (Instr. 3 a	tion(s)			(mati. 4)			
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																				
1. Title of Derivative Security (Instr. 3)	Derivative Conversion Date Execution Date, To Courting Or Exercise (Month/Day/Year) Execution Date, C			ransa ode (I	ansaction of ode (Instr. Derivative			6. Date Exercisable and Expiration Date (Month/Day/Year) (Month/Day/Year) 7. Title and Am of Securities Underlying Derivative Sec (Instr. 3 and 4)			ies g Secu	Derivative Security		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)			
				С	code	v	(A)	(D)	Date Exercisable		Expiration Date	Title	Amo or Num of Shar	ber						
Stock Option (right to buy)	\$18.99	06/09/2021			A		15,000		(1)	0	6/08/2031	Common Stock	15,0	000	\$0.00	15,000)	D		

Explanation of Responses:

1. The options fully vest upon the earlier of (i) June 9, 2022 or (ii) the date of the Issuer's next annual meeting of the stockholders.

Remarks:

/s/ Sasha Keough, attorney-in-06/11/2021 fact

** Signature of Reporting Person Date

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

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.

 $^{^{\}star}$ 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).