FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Washington, B.O. 200 10	

OMB APPROVAL										
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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

1. Name and Address of Reporting Person* Mathers Edward T					RF	2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]										5. Relationship of F (Check all applicab Director		g Pers	son(s) to Iss 10% Ov Other (s	vner
(Last) 104 5TH	,	irst)	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 06/21/2024										below)	(give title		below)	вреспу
(Street) NEW YO		Y	10011		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line	ndividual or Joint/Group Filing (Check Applicable e) Form filed by One Reporting Person Form filed by More than One Reporting Person				n	
(City)	(State) (Zip)				Ru	Rule 10b5-1(c) Transaction Indication														
						Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.														
		Tab	le I - Nor	n-Deriv	ative	Sec	uriti	ies Ac	qu	uired, l	Disp	osed o	of, o	r Ber	neficial	ly Owned	t			
1. Title of Security (Instr. 3) 2. Transat Date (Month/Date)				ar) E	2A. Deemed Execution Date, if any (Month/Day/Year)		´	3. Transac Code (I 8)	Dispose	. Securities Acquired (A Disposed Of (D) (Instr. 3,)			Benefici Owned F	es ally Following	Form (D) o	n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership			
										Code	v	Amount		(A) or (D)	Price	Reported Transact (Instr. 3	tion(s)			(Instr. 4)
Common Stock 06/21/					/2024			M		3,000		A	(1)	3,000			D			
Common Stock												5,	5,771			See Note 2 ⁽²⁾				
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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date,	4. Transa Code (l 8)				Ex	Date Exe piration lonth/Day		7. Title and Amount of Securities Underlying Derivative Sect (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Da Ex	ate cercisable		xpiration ate	Title		Amount or Number of Shares					
Restricted Stock Units	(1)	06/21/2024			M			3,000		(3)	T	(3)		nmon ock	3,000	\$0	0		D	

Explanation of Responses:

- 1. Each restricted stock unit represents a contingent right to receive one share of Issuer common stock.
- 2. The Reporting Person is the trustee of the Edward Timothy Mathers Revocable Trust (the "Mathers Trust"), which is the direct beneficial owner of the securities. The Reporting Person disclaims beneficial ownership within the meaning of Section 16 of the Securities Exchange Act of 1934, as amended, or otherwise of such portion of the securities held by the Mathers Trust in which the Reporting Person has no
- 3. The restricted stock units fully vested on June 21, 2024. The restricted stock units have no expiration date.

/s/ Zachary Bambach, attorney- 06/25/2024 in-fact

** 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 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).

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.