FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number: 3235-0									
Estimated average burden									
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

										- 1 7								
1. Name and Address of Reporting Person* Mathers Edward T					RF	2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]							[Ch	Relationship eck all applie	cable) or	g Pers	10% Ov	ner
(Last) 104 5TH	(First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year) 06/18/2024							Officer (give title Other (speci below) below)					
(Street) NEW YORK NY 10011			4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							Line	Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City) (State) (Zip)				Rı	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.											
		Tat	ole I - Nor	n-Deriv	ative	e Se	curities	s Ac	quired, Di	spose	d of	f, or Bei	neficial	y Owned	ı			
1. Title of Security (Instr. 3) 2. Transar Date (Month/Da						Execution Date,			3. Transaction Code (Instr. 8) 5) 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4)					Benefici Owned F	es ally following	Form (D) or	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership
				Code V	Amo				unt	(A) or (D)		Transact	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
									uired, Dis , options,					Owned				
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. Transaction Code (Instr. 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)		nd	7. Title and Amou of Securities Underlying Derivative Securit (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)
					Code	v	(A)	(D)	Date Exercisable	Expirat Date	ion	Title	Amount or Number of Shares					
Stock Option (right to buy)	\$41.39	06/18/2024			Α		14,000		(1)	06/17/2	034	Common Stock	14,000	\$0	14,000)	D	
Restricted Stock Units	(2)	06/18/2024			A		4,000		(3)	(3)		Common Stock	4,000	\$0	4,000		D	

Explanation of Responses:

- 1. The options fully vest upon the earlier of (i) June 18, 2025 or (ii) the date of the Issuer's annual meeting of the stockholders to be held in 2025, subject to the Reporting Person's continued service on such
- 2. Each restricted stock unit represents a contingent right to receive one share of Issuer common stock.
- 3. The restricted stock units fully vest upon the earlier of (i) June 18, 2025 or (ii) the date of the Issuer's annual meeting of the stockholders to be held in 2025, subject to the Reporting Person's continued service on such vesting date. The restricted stock units have no expiration date.

/s/ Zachary Bambach, attorneyin-fact

06/20/2024

** 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.

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the undersigned hereby constitutes and appoints Zachary Bambach, Nicole Hatcher and Stephanie Brecher, and each of them, with full power to act without the others, his or her true and lawful attorney-in-fact, with full power of substitution, to sign any and all instruments, certificates and documents that may be necessary, desirable or appropriate to be executed on behalf of himself as an individual or in his or her capacity as a direct or indirect general partner, director, officer or manager of any partnership, corporation or limited liability company, pursuant to section 13 or 16 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and any and all regulations promulgated thereunder, including, without limitation, Forms 3, 4 and 5 and Schedules 13D and 13G (and any amendments thereto), and to file the same, with all exhibits thereto, and any other documents in connection therewith, with the Securities and Exchange Commission (the "SEC"), including, but not limited to, signing a Form ID for and on behalf of the undersigned and filing such Form ID with the SEC, and with any other entity when and if such is mandated by the Exchange Act or by the Financial Industry Regulatory Authority, granting unto said attorney-in-fact full power and authority to do and perform each and every act and thing necessary, desirable or appropriate, fully to all intents and purposes as he or she might or could do in person, thereby ratifying and confirming all that said attorney-in-fact, or his or her substitutes, may lawfully do or cause to be done by virtue hereof. This power of attorney is perpetual, unless revoked by the undersigned in a signed writing delivered to each of the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, this Power of Attorney has been signed as of the 29th day of February, 2024.

/s/ Peter J. Barris
Peter J. Barris

/s/ Forest Baskett
Forest Baskett

/s/ Ali Behbahani
Ali Behbahani

/s/ Ronald D. Bernal Ronald D. Bernal

/s/ Ann Bordetsky
Ann Bordetsky

/s/ Carmen Chang Carmen Chang

/s/ Philip Chopin
Philip Chopin

/s/ Anthony A. Florence, Jr.
Anthony A. Florence, Jr.

/s/ Jonathan Golden
Jonathan Golden

/s/ Scott Gottlieb

Scott Gottlieb

/s/ Mark Hawkins

Mark Hawkins

/s/ Jeffrey R. Immelt

Jeffrey R. Immelt

/s/ Aaron Jacobson

Aaron Jacobson

/s/ Patrick J. Kerins

Patrick J. Kerins

/s/ Hilarie Koplow-McAdams

Hilarie Koplow-McAdams

/s/ Vanessa Larco

Vanessa Larco

/s/ Julio C. Lopez

Julio C. Lopez

/s/ Tiffany Le

Tiffany Le

/s/ Mohamad H. Makhzoumi

Mohamad H. Makhzoumi

/s/ Edward T. Mathers

Edward T. Mathers

/s/ Gregory Papadopoulos

Gregory Papadopoulos

/s/ Kavita Patel

Kavita Patel

/s/ Scott D. Sandell

Scott D. Sandell

/s/ A. Brooke Seawell

A. Brooke Seawell

/s/ Peter Sonsini

Peter Sonsini

/s/ Melissa Taunton

Melissa Taunton

/s/ Paul E. Walker

Paul E. Walker

/s/ Rick Yang Rick Yang