FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

					or sec	20011 30(11) or the ii	ivesimei	IL COI	ilpariy Act of	1940							
1. Name and Address of Reporting Person* Mazabraud Yann (Last) (First) (Middle) 222 BERKELEY STREET, 12TH FLOOR (Street) BOSTON MA 02116 (City) (State) (Zip)					2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM] 3. Date of Earliest Transaction (Month/Day/Year) 04/14/2024						(Che	ck all application	able)	Person(s) to Issu 10% Ow Other (s		vner		
											_	EVI						
					4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
					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.													
		Та	ble I - Non	-Deriva	tive S	ecuriti	es Acq	uired,	Disp	osed of,	or Ben	eficially	Owned					
Date (Month/				2. Transac Date (Month/Da	Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4)			5. Amoun Securities Beneficia Owned Fo	Form ly (D) o		Direct I Indirect E tr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
								Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)				(iiiou. 4)	
				04/14/2	1/2024				м 10,3		5 D (1)		34,870		D			
			Table II - D					,	•	sed of, o		•	Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year	Code	saction e (Instr.	5. Number of Derivative		6. Date Exercisable a Expiration Date (Month/Day/Year)		te			8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficial Owned Following Reported	e Owners Form Direct or Inc. (I) (In Inc.)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	e V	(A)	(D)	Date Exercis	able	Expiration Date	Title	Amount or Number of Shares		Transaction (Instr. 4)	on(s)	11(5)		
Restricted Stock Units	(1)	04/14/2024		М			10,375	5 (2)		(2)	Common Stock	10,375	\$0	31,12	5	D		
Restricted Stock Units	(1)	04/15/2024		D ⁽³⁾			2,031	(4)		(4) (4) Common Stock 2		2,031	\$0	0		D		
Restricted Stock Units	(1)	04/15/2024		D ⁽⁵⁾			6,874	(6)		(6) (6) Common Stock		6,874	\$0	0		D		
Restricted Stock Units	(1)	04/15/2024		A		8,905		(7)		(7)	Common Stock	8,905	\$0	8,905	5	D		

Explanation of Responses:

- 1. Each restricted stock unit represents a contingent right to receive one share of Issuer common stock.
- 2. The restricted stock units vest or have vested as to 25% of the total shares on each of April 14, 2024, April 14, 2025, April 14, 2026 and April 14, 2027. The restricted stock units have no expiration date.
- 3. The restricted stock units were rescinded and cancelled by mutual agreement of the reporting person and Issuer. The reporting person received French-qualified restricted stock units on April 15, 2024 as consideration for the recission and cancellation of the unvested portion of the restricted stock previously received on February 11, 2021.
- 4. The restricted stock units vest or have vested as to 25% of the total shares on each of February 11, 2022, February 11, 2023, February 11, 2024 and February 11, 2025. The restricted stock units have no expiration
- 5. The restricted stock units were rescinded and cancelled by mutual agreement of the reporting person and Issuer. The reporting person received French-qualified restricted stock units on April 15, 2024 as consideration for the recission and cancellation of the unvested portion of the restricted stock previously received on February 9, 2022.
- 6. The restricted stock units vest or have vested as to 25% of the total shares on each of February 9, 2023, February 9, 2024, February 9, 2025 and February 9, 2026. The restricted stock units have no expiration date
- 7. The restricted stock units vest in full on April 15, 2025. The restricted stock units have no expiration date.
- 8. The restricted stock units vest or have vested as to 25% of the total shares on each of April 15, 2025, April 15, 2026, April 15, 2027 and April 15, 2028. The restricted stock units have no expiration date.

/s/ Hunter Smith, attorney-infact for Yann Mazabraud

** Signature of Reporting Person Date

04/16/2024

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.