FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

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	OMB Number:	3235-0287								
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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 Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* Mazabraud Yann (Last) (First) (Middle) C/O RHYTHM PHARMACEUTICALS, INC. 222 BERKELEY STREET, 12TH FLOOR					2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM] 3. Date of Earliest Transaction (Month/Day/Year) 02/11/2023 4. If Amendment, Date of Original Filed (Month/Day/Year)								[(Ch	S. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director					
(Street) BOSTON MA 02116]	X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	tate)	(Zip)																
	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 (Instr. 5)		l (A) or . 3, 4 and	Benefici	es Forrially (D) of Following (I) (II		n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
									Code V		Amount	(A) or (D)		Price	Transac (Instr. 3	tion(s)			,iii3ti. 4)
Common Stock 02/11/2					/2023			M		2,031 A		(1)	5,004			D			
	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	xercise (Month/Day/Year) if any Code (Instr. Derivative (Month/Day/Year) 8) Securities Acquired			Date Expiration					t of ies ying ive Se and o	Amount or lumber	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
Restricted Stock Units	(1)	02/11/2023			M M	(*	2,031	LX	(2)		(2)	Commo Stock	on ,	2,031	\$0	4,062		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 February 11, 2022, February 11, 2023, February 11, 2024 and February 11, 2025. The restricted stock units have no expiration date.

/s/ Hunter Smith, Attorney-in-Fact for Yann Mazabraud

02/14/2023

** 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.