Instruction 1(b).

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject	
to Section 16. Form 4 or Form 5	
obligations may continue. See	

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL 3235-0287 Estimated average burden hours per response: 0.5

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						2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]									k all app Direc	,	ng Per	rson(s) to Is 10% O Other (wner
(Last) (First) (Middle) C/O RHYTHM PHARMACEUTICALS, INC. 222 BERKELEY STREET, 12TH FLOOR						3. Date of Earliest Transaction (Month/Day/Year) 02/09/2023									belov	v) TP, Head o	of Inte	below) ernational	
(Street) BOSTON MA 02116 (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year) 02/13/2023									dividual or Joint/Group Filing (Check Applicable) Control Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Table	I - No	n-Deriva	tive S	Secui	rities	Acq	uired	, Dis	posed of	, or E	3ene	ficiall	y Own	ed			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day						Execution Dat			3. Transaction Code (Instr. 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)				Securit Benefic Owned	i. Amount of Securities Beneficially Dwned Following Reported		vnership n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount	(A) or (D)		rice	Transa	nsaction(s) str. 3 and 4)			(111501.4)
Common Stock 02/09/2					2023			S ⁽¹⁾		1,563 D		\$	327.51	2,973			D		
		Tal									osed of, convertib				Owne	d	,		
1. Title of Derivative Security (Instr. 3)	rivative Conversion Date Execution or Exercise (Month/Day/Year) if any		emed ion Date, /Day/Year)	4. Transaction Code (Instr. 8)		of	ired r osed) : 3, 4	6. Date Expirat (Month	h/Day/Y		7. Title and Amount of Securities Underlying Derivative Security (Ins 3 and 4)		str. De Se (In	Price of brivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

1. The sale reported in the Form 4 was effected pursuant to a Rule 10b5-1 instruction solely with the intent to cover withholding taxes in connection with the vesting of certain previously reported restricted stock units.

Remarks:

This amended Form 4 is being filed solely for the purpose of correcting an administrative error in the number of shares sold and sale price which were initially reported on the Form 4 filed on February 13, 2023.

> /s/ Hunter Smith, Attorney-in-02/14/2023 Fact for Yann Mazabraud

** 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.