SEC Form 4	
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FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b). UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHI

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL										
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Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan for the purchase or sale of equity securities of the issuer that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.

(Last) (First) (Middle)		erson [*]	2. Issuer Name and Ticker or Trading Symbol <u>RHYTHM PHARMACEUTICALS, INC.</u> [<u>RYTM</u>]		tionship of Reporting Per all applicable) Director Officer (give title below)	son(s) to Issuer 10% Owner Other (specify below)
		,	3. Date of Earliest Transaction (Month/Day/Year)		Chief Technical	,
222 DERREEE	I SIKEEI, IZ	IIIILOOK				
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	vidual or Joint/Group Filin	g (Check Applicable
BOSTON	MA	02116		1	Form filed by One Rep	orting Person
(City)	(State)	(Zip)			Form filed by More tha Person	n One Reporting

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr.		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150.4)
Common Stock	11/11/2024		М		7,969	A	\$6.8	7,969	D	
Common Stock	11/11/2024		М		5,312	A	\$21.38	13,281	D	
Common Stock	11/11/2024		S ⁽¹⁾		6,604	D	\$ 65.7291 ⁽²⁾	6,677	D	
Common Stock	11/11/2024		S ⁽¹⁾		5,977	D	\$ 67.054 ⁽³⁾	700	D	
Common Stock	11/11/2024		S ⁽¹⁾		700	D	\$ 67.8343 ⁽⁴⁾	0	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

	(e.g., puts, cars, 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. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		of		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 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)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (right to buy)	\$ 6.8	11/11/2024		М			7,969	(5)	02/08/2032	Common Stock	7,969	\$0	19,922	D	
Stock Option (right to buy)	\$21.38	11/11/2024		М			5,312	(6)	07/26/2030	Common Stock	5,312	\$0	0	D	

Explanation of Responses:

1. The sale reported in this Form 4 was effected pursuant to Rule 10b5-1 instruction adopted on August 8, 2024.

2. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at per share prices ranging from \$65.35 to \$66.3499. The Reporting Person undertakes to provide to the Issuer, any security holder of the Issuer or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.

3. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at per share prices ranging from \$66.5 to \$66.4999. The Reporting Person undertakes to provide to the Issuer, any security holder of the Issuer or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.

4. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at per share prices ranging from \$67.51 to \$68,5099. The Reporting Person undertakes to provide to the Issuer, any security holder of the Issuer or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.

5. The stock options were granted on February 9, 2022. The options vest and become exercisable in 16 substantially equal installments upon the Reporting Person's completion of each three full months of successive service to the Issuer following the grant date.

6. The stock options were granted on July 27, 2020. 25% of the shares subject to the option vested and became exercisable on July 27, 2021 and the remaining 75% of the shares subject to the option shall vest and become exercisable in 12 substantially equal installments upon the Reporting Person's completion of each three full months of successive service to the Issuer thereafter.

<u>/s/ Stephen Vander Stoep as</u> <u>Attorney-in-Fact for Joseph</u> <u>Shulman</u>

** Signature of Reporting Person

11/13/2024

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.