FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287
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).

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

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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.

OCC IIISTI UCTION				
1. Name and Address of Reporting Person* GOOD JENNIFER L			2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify
(Last) (First) (Middle) 222 BERKELEY STREET, 12TH FLOOR		, ,	3. Date of Earliest Transaction (Month/Day/Year) 08/26/2024	below) below)
(Street) BOSTON (City)	MA (State)	02116 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person Form filed by More than One Reporting Person

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)	3. Transaction Code (Instr. 8)					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)		(111301. 4)
Common Stock	08/26/2024		M		2,100	A	\$22.93	5,100	D	
Common Stock	08/26/2024		M		4,945	A	\$21.37	10,045	D	
Common Stock	08/26/2024		M		5,763	A	\$18.99	15,808	D	
Common Stock	08/26/2024		M		1,700	A	\$4.15	17,508	D	
Common Stock	08/26/2024		S ⁽¹⁾		14,508	D	\$50.0087(2)	3,000	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

(e.g., puts, calls, warrants, options, convertible securities) 3A. Deemed Execution Date, 3. Transaction Date 1. Title of 6. Date Exercisable and 7. Title and 9. Number of 11. Nature 5. Number 8. Price of Z. Conversion Transaction Derivative Ownership Derivative **Expiration Date** Amount of derivative of Indirect Code (Instr. 8) Derivative Securities Acquired Security (Instr. 3) or Exercise Price of Securities Underlying Security (Instr. 5) Securities Beneficially Form: Direct (D) (Month/Day/Year) if any (Month/Day/Year) (Month/Day/Year) Beneficial Ownership Derivative **Derivative Security** Owned or Indirect (Instr. 4) (A) or Disposed of (D) Security (Instr. 3 and 4) Following Reported (I) (Instr. 4) Transaction(s) (Instr. 3, 4 (Instr. 4) and 5) Amount or Number Expiration Date Date (A) (D) Exercisable Title Shares Stock Option Commor (3) \$22 93 08/26/2024 27 900 D M 2 100 06/18/2029 2.100 \$0.00 (right to Stock buy) Stock Option \$21.37 08/26/2024 M 4.945 (3) 06/16/2030 4,945 \$0.00 13,555 D (right to Stock buy) Stock Option Commor \$18.99 08/26/2024 (3) 06/08/2031 D M 5.763 5,763 \$0.00 9.237 (right to Stock buy) Stock Option \$4.15 08/26/2024 M 1,700 (3) 06/07/2032 1,700 18,300 D (right to Stock buy)

Explanation of Responses:

- 1. The sales reported in the Form 4 were effected pursuant to a Rule 10b5-1 instruction adopted on May 22, 2024.
- 2. The price reported is a weighted average price. The securities were sold in multiple transactions at per share prices ranging from \$50.00 to \$50.045. The Reporting Person undertakes to provide upon request the SEC staff, the Issuer, or any shareholder of the Issuer, full information regarding the number of securities sold at each separate price within the range set forth in this footnote.
- 3. The option is fully vested and exercisable.

/s/ Hunter Smith, attorney-infact for Jennifer L. Good

08/28/2024

** 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.