FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
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OMB APPROVAL									
OMB Number: 3235-028									
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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).

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* Bedrosian Camille L (Last) (First) (Middle) 222 BERKELEY STREET, 12TH FLOOR					3. E 12/	Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM] 3. Date of Earliest Transaction (Month/Day/Year) 12/09/2020							. [(Chec	Officer (give title below)			10% Ov Other (s below)	ner	
(Street) BOSTON (City)			02116 (Zip)		4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line)	Form fi	or Joint/Group Filing (Check Applicable In filed by One Reporting Person In filed by More than One Reporting				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					action	2A. Deemed Execution Date,		3. Transac Code (li 8)	4. Securi		ties Acquire I Of (D) (Ins	ed (A) o	or 5. Amou 1 and Securitie Benefici		int of 6. Of Formally (D) (I) (I)		: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	V	Amount	(A) oi (D)	Pric	rice Irans (Instr.		and 4)				
	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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution I if any (Month/Day	Date, T	I. Fransa Code (I		of I		6. Date Exercisa Expiration Date (Month/Day/Yea			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)			3. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	e s ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisabl		xpiration ate	Title	Amou or Numb of Share	er						
Stock Option (Right to Buy)	\$28.27	12/09/2020			A		37,000		(1)	1	2/08/2030	Common Stock	37,0	00	\$0	37,000	0	D		

Explanation of Responses:

 $1. \ One-third \ of the \ options \ will \ vest \ on \ each \ one-year \ anniversary \ of \ the \ grant \ date, \ with \ the \ first \ one-third \ vesting \ on \ December \ 9, \ 2021.$

/s/ Hunter Smith, attorney-infact for Camille L. Bedrosian

12/11/2020

** 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.

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