FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
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).

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* <u>Arbuckle Stuart A</u>				<u>RI</u>	2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]									all applic Directo	or		10% Ov	vner		
(Last) 222 BER	`	irst) FREET, 12TH F	(Middle) LOOR			3. Date of Earliest Transaction (Month/Day/Year) 06/17/2020									Officer below)	(give title		Other (s below)	pecify	
(Street) BOSTON (City)			02116 (Zip)		4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)								Indivi ne) X	· /					
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execution Date,		Code (Ir	Transaction Disposed Of Code (Instr. 5)		ies Acquired (A) or Of (D) (Instr. 3, 4 an				s Illy ollowing	Form (D) o	: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount	(A) or (D) Pri		- 1	Transaction(s) (Instr. 3 and 4)				(our +)	
	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, 7	4. Transa Code (1 3)		of E		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and of Security Underlying Derivative (Instr. 3 and 10 a	ies g Security	De Se	B. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transaction (Instr. 4)	ly D	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)		Date Exercisable		xpiration ate	Title	Amount or Number of Shares							
Stock Option (right to buy)	\$21.37	06/17/2020			A		18,500		(1)	0	6/16/2030	Common Stock	18,500)	\$0	18,500	0	D		

Explanation of Responses:

1. The options fully vest upon the earlier of (i) 1 year from the date of grant or (ii) the date of the Issuer's next annual meeting of the stockholders.

/s/ Hunter Smith, attorney-in-

fact

** Signature of Reporting Person

Date

06/18/2020

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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