FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number: 3235-02										
Estimated average burden										
hours per response:										

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

Name and Address of Reporting Person* Stewart Murray					2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]								Relationship on the ck all applications of the ck.	cable)	j Pers	on(s) to Iss 10% Ov Other (s	vner	
	(First) (Middle) BERKELEY STREET, I FLOOR				3. Date of Earliest Transaction (Month/Day/Year) 06/30/2020								X Officer (give title Other (specify below) Chief Medical Officer					
(Street) BOSTON (City)			02116 (Zip)	4.							6. Lin	e) X Form f Form f	vidual or Joint/Group Filing (Check Applicable 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. Transar Date (Month/Date				Execution Date,		Code (I	Transaction Disposed Of (D) (Instr. 3, 4			ed (A) or str. 3, 4 an	Benefici	s Fo ally (D) ollowing (I)	Form (D) or	Ownership orm: Direct o) or Indirect (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
							Code	v	Amount	(A) o (D)	Price	Transact (Instr. 3	tion(s)			(11150: 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		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 derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Date Exercisab		Expiration Date	Title	Amount or Number of Shares						
Restricted Stock Units	(1)	06/30/2020		A		25,000		(2)		(2)	Common Stock	25,000	\$0	25,000		D		

Explanation of Responses:

- 1. Each restricted stock unit represents a contingent right to receive one share of Issuer common stock.
- 2. The restricted stock units vest in full on June 30, 2022, provided that if the Reporting Person incurs a qualifying termination on or prior to June 30, 2022, the restricted stock units will vest in full immediately prior to such qualifying termination. The restricted stock units have no expiration date

/s/ Hunter Smith, attorney-in-

fact

** Signature of Reporting Person

07/02/2020 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.