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

						. ,			' '							
Name and Address of Reporting Person* Stewart Murray				2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
Stewar	<u>l Murray</u>				RYTM]						- '	Directo			10% Ow	
				L	KI IIVI J						X Officer below)	(give title		Other (s below)	pecify	
(Last) (First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year)						Chief Medical Officer					
500 BOYLSTON STREET, 11TH FLOOR					10/15/2018								icui c	7111001		
(Street) 4. If Amend					If Amendment, Date of Original Filed (Month/Day/Year)					6. Individual or Joint/Group Filing (Check Applicable Line)						
BOSTO	N M	IΑ	02116									,	led by One	Repor	ting Person	.
											Form filed by More than One Reporting Person					
(City)	(S	tate)	(Zip)													
		Та	ble I - Non-l	Derivati	ive Se	ecurities	s Ac	quired, D	isposed	of, or B	eneficial	y Owned				
Date			. Transacti Pate Month/Day	Execution Date,		Code (Ins						Form:	Direct Indirect Itstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
						Code	Amour	t (A)	or Price	Transacti (Instr. 3 a	ion(s)					
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned																
			(е	.g., put	s, cal	ls, warr	ants	s, options	, conver	ible sec	urities)					
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/Yea	n Date, Code (Instr. Sec ay/Year) 8) Acc or I		Derivative Expiration Date of Securities (Month/Day/Year) U Acquired (A) D		of Secur Underlyi Derivativ	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)			
Employee Stock Option (right to buy)	\$26.54	10/15/2018		A		100,000		(1)	10/14/2028	Common Stock	100,000	\$0	100,000	0	D	

Explanation of Responses:

1. The option vests as follows: (1) 25% on October 15, 2019, and (2) the remaining 75% in 12 equal quarterly installments.

/s/ Hunter S. Smith, attorney-in-10/17/2018

fact

** 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.

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.