FORM 4

Check this box if no longer subject to

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	OVAL								
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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* Kelner Simon							2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
(Last) (First) (Middle) 500 BOYLSTON STREET, 11TH FLOOR					3. [RYTM] 3. Date of Earliest Transaction (Month/Day/Year) 02/13/2019									below)	(give title Human R	lesou	Other (s below) rces Offic	`	
(Street) BOSTO	BOSTON MA 02116					4. If Amendment, Date of Original Filed (Month/Day/Year)								Line	ndividual or Joint/Group Filing (Check Applicable e) X 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. Transa Date (Month/D					action	ction 2A. Deemed Execution Date,			3. 4. Securi			ties Acqui	red (A	A) or	5. Amour Securitie Beneficia	int of 6. es Foially (D		: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership	
								Code	v	Amount	(A) (D)	or	Price	Transact (Instr. 3 a	tion(s)			(Instr. 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 Day if any (Month/Day/	ate, T	Code (Ins		on of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amo of Securities Underlying Derivative Secur (Instr. 3 and 4)		curity	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Ow For Oir Or (i)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)		Date Exercisabl		expiration Date	Title	or Nu of	ımber						
Employee Stock Option (Right to	\$29.78	02/13/2019			A		55,000		(1)	0	2/12/2029	Common Stock	55	5,000	\$0	55,000	0	D		

Explanation of Responses:

1. This option was granted on February 13, 2019 and the shares underlying this option vest in sixteen equal quarterly installments beginning on May 13, 2019.

/s/ Hunter S. Smith as attorneyin-fact for Simon Kelner

** 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.