Instruction 1(b).

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to	STATEMENT OF CH
Section 16. Form 4 or Form 5	
obligations may continue. See	

ANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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* JEAN CHRISTOPHE							2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]								ck all applic	cable) or	ng Person(s) to Iss 10% Ov		vner	
(Last) 500 BOY	,	irst) ΓREET, 11TH F	(Middle) LOOR			3. Date of Earliest Transaction (Month/Day/Year) 06/06/2018 Officer (give title below) below) Other (s below)											specify			
(Street) BOSTON			02116 (Zip)		4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line)	Individual or Joint/Group Filing (Check Applicable le) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tak	ole I - Nor	ı-Deri\	/ativ	e Se	curities	s Ac	quired, I	Dis	osed o	of, or Be	nefic	ially	Owned					
1. Title of Security (Instr. 3) 2. Transa Date (Month/D						Execution Date,			Code (li	Transaction Disposed Code (Instr. 5)			ed (A) str. 3, 4	and Securitie Benefici		s ally following	Form (D) o		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
										v	Amount	(A) or (D)	Pr	ice	Transact (Instr. 3	tion(s)			(1130.4)	
			Table II -						uired, Di , option						Owned			·	Α.	
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,	Code (li			ive ies ed ed nstr.	Expiration	5. Date Exercisable and Expiration Date Month/Day/Year)		7. Title and Amou of Securities Underlying Derivative Securit (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transactie (Instr. 4)	e s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership ct (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisabl		expiration Date	Title	Amo or Num of Shar	nber						
Stock Option (right to buy)	\$34.89	06/06/2018			A		10,000		(1)	0	6/05/2028	Common Stock	10,0	000	\$0	10,00	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 S. Smith, attorney-

in-fact

** Signature of Reporting Person

Date

06/08/2018

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.