FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D	.C. 20549
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Smith 1	Hunter C (Final Content of the Cont	3. E	RHYTHM PHARMACEUTICALS, INC. [RYTM] 3. Date of Earliest Transaction (Month/Day/Year) 03/13/2020									(Ch	Relationship of Reporting Person(s) to issue heck all applicable) Director 10% Own X Officer (give title below) Chief Financial Officer				vner			
(Street) BOSTO		tate)	02116 (Zip)	n-Deriv	4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing Line) X Form filed by One Report Form filed by More that Person Derivative Securities Acquired, Disposed of, or Beneficially Owned									orting Perso	n					
1. Title of Security (Instr. 3)					2. Transaction Date (Month/Day/Year)			2A. Deemed Execution Date, if any (Month/Day/Year)			tion str.					Benefici Owned	es ally Following	s Form ally (D) collowing (I) (II		7. Nature of Indirect Beneficial Ownership
	Code V Amount (A) or (D) Price (Instr. 3 and 4)											(Instr. 4)								
Common	Stock			03/13	3/2020	0				M		3,500	0	A	\$6.8	8 25	,750		D	
		Т	able II - I									sed of onverti				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date,	4. Transacti Code (Ins 8)		of Deri Sec Acq (A) o Disp of (I	oosed D) tr. 3, 4	Expi	ate Exer ration D nth/Day/	Date				mount	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	is Ily	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				Code V (A) (I				(D)				kpiration ate	of		umber					
Employee Stock Option (Right to Buy)	\$6.88	03/13/2020			М			3,500		(1)	08	3/08/2027	Commo Stock		3,500	\$0	175,99)4	D	

Explanation of Responses:

1. The stock options were granted on August 9, 2017. 25% of the stock options vested and became exercisable on July 31, 2018. 75% of the stock options shall vest in 36 successive, equal monthly installments with the first such installment vesting and becoming exercisable on August 31, 2018.

/s/ Hunter C. Smith

03/16/2020

** 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.