SEC Form 4	
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

OMB APPROVAL

OMB Number:	3235-0287
Estimated average burg	den 0.5
hours per response:	0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See						NT OF CHANGES IN BENEFICIAL OWNERSHIP									Estima	OMB Number: 3235-0287 Estimated average burden hours per response: 0.5			
	tion 1(b).	iue. 366		File					a) of the Sec Investment				934		nours p	er response:	0.5		
1. Name and Address of Reporting Person* Smith Hunter C					2. Issuer Name and Ticker or Trading Symbol <u>RHYTHM PHARMACEUTICALS, INC.</u> [<u>RYTM</u>]							[(Ch	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specil below) below)			Owner (specify			
(Last) (First) (Middle) 222 BERKELEY STREET, 12TH FLOOR					3. Date of Earliest Transaction (Month/Day/Year) 07/20/2020								Chief Financial Officer						
(Street) BOSTON (City)			02116 (Zip)		4.1	If Ame	endment, I	Date	of Original F	iled (Mo	nth/Da	ıy/Year)	Line	e) <mark>X</mark> Form fi	iled by One	Filing (Check A Reporting Pers e than One Rep	on		
		Tab	ole I - Nor	n-Deriv	ativ	e Se	curities	s Ac	quired, I	Dispos	sed o	f, or Be	neficial	y Owned					
1. Title of Security (Instr. 3) 2. Transa Date (Month/D				action 2A. Deemed Execution Date, if any (Month/Day/Year			Code (Instr. 5)							6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership				
									Code	V An	nount	(A) oi (D)	Price	Transact (Instr. 3 a	ion(s)		(Instr. 4)		
		-	Table II -						uired, Di s, options					Owned					
1. Title of Derivative Security (Instr. 3)	rivative Conversion Date Execution Date, curity or Exercise (Month/Day/Year) if any			Date,		ansaction of ode (Instr. Derivative			6. Date Exercisable and Expiration Date (Month/Day/Year) 7. Title and Am of Securities Underlying Derivative Secu (Instr. 3 and 4)			ies g Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	y Direct (D) or Indirec (I) (Instr.	t (Instr. 4)			
					Code	v	(A)	(D)	Date Exercisable	Expir Date	ation	Title	Amount or Number of Shares						
Stock Option (Right to Buy)	\$22.53	07/20/2020			A		25,000		(1)	07/19	/2030	Common Stock	25,000	\$0	25,000	D			

Explanation of Responses:

1. The stock options were granted on July 20, 2020. The option vests and becomes exercisable in 16 substantially equal installments upon the Reporting Person's completion of each three full months of successive service to the Issuer following the grant date.

/s/ Hunter C. Smith

** Signature of Reporting Person

07/21/2020 Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

 \ast 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.