FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287

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0.5

	Check this box if no longer subject
	to Section 16. Form 4 or Form 5
J	obligations may continue. See
_	Instruction 1/h)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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* Gottesdiener Keith Michael						2. Issuer Name and Ticker or Trading Symbol RHYTHM PHARMACEUTICALS, INC. [RYTM]								Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
(Last) 500 BO	Last) (First) (Middle) 500 BOYLSTON STREET, 11TH FLOOR					3. Date of Earliest Transaction (Month/Day/Year) 02/13/2019								X Officer (give title below) CEO and Presi			Other (s below) ident	pecify
(Street) BOSTON MA 02116 (City) (State) (Zip)					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								5. Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tab	le I - N	lon-Deri	vative \$	Sec	urities	Acc	quired, [Disp	osed o	f, or Be	neficial	y Owned	l			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day						Execution Date,						ities Acquired (A) or d Of (D) (Instr. 3, 4		5. Amount of Securities Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or (D) Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		Instr. 4)
Common Stock 02/13/2)19			S ⁽¹⁾		3,934	4 D	\$30(2	540	540,986		D	
			Tab	le II - Der (e.g					uired, Di , options					wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any		4. Transaction Code (Instr. 8)		n of		6. Date Ex Expiration (Month/Da	Dat	е	Amount of		8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e s Ily	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
					Code	V (A) (D) Exercisable Expiration Date Expiration Date Title Shares												
Employee Stock Option (Right to	\$29.78	02/13/2019			A		225,000		(3)	0	2/12/2029	Common Stock	225,000	\$0	225,00	00	D	

Explanation of Responses:

- 1. On February 13, 2019, Mr. Gottesdiener sold 3,934 shares pursuant to a plan of disposition adopted in accordance with Rule 10b5-1 of the Securities Exchange Act of 1934, as amended.
- 2. This transaction was executed in multiple trades at prices ranging from \$30.00 to \$30.03, inclusive; the price reported above reflects the weighted average sale price. Mr. Gottesdiener hereby undertakes to provide to the Securities and Exchange Commission staff, the issuer or any security holder of the issuer, upon request, full information regarding the number of shares and prices at which the transaction was effected.
- 3. 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/ Keith M. Gottesdiener 02/15/2019

** 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.