

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL
OMB Number: 3235-0287
Estimated average burden
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

1. Name and Address of Reporting Person *		2. Issuer Name and Ticker or Trading Symbol		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)	
MANUSO JAMES S J		RespireRx Pharmaceuticals Inc. [RSPI]		<input checked="" type="checkbox"/> Director _____ 10% Owner <input checked="" type="checkbox"/> Officer (give title below) _____ Other (specify below) President and CEO	
(Last) (First) (Middle)		3. Date of Earliest Transaction (MM/DD/YYYY)			
C/O RESPIRERX PHARMACEUTICALS INC., 126 VALLEY ROAD, SUITE C		6/30/2017			
(Street)		4. If Amendment, Date Original Filed (MM/DD/YYYY)		6. Individual or Joint/Group Filing (Check Applicable Line)	
GLEN ROCK, NJ 07452				<input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person	
(City) (State) (Zip)					

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Trans. Date	2A. Deemed Execution Date, if any	3. Trans. Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			

Table II - Derivative Securities Beneficially Owned (e.g. , puts, calls, warrants, options, convertible securities)

1. Title of Derivate Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Trans. Date	3A. Deemed Execution Date, if any	4. Trans. Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Common Stock Options (to purchase shares of Common Stock)	\$2	6/30/2017		A		50000		(1)	6/30/2022	common stock	50000	\$0	50000	D	
Common Stock Options (to purchase shares of Common Stock)	\$3.9							(2)	1/17/2022	common stock	75000		75000	D	
Common Stock Warrants (right to buy)	\$4.875 (3)								4/7/2016	9/30/2020	common stock	36578 (3)	36578 (3)	D	
Common Stock Warrants (right to buy)	\$6.5 (3)								2/4/2016	2/4/2019	common stock	8093 (3)	8093 (3)	D	
Common Stock Options (to purchase shares of Common Stock)	\$7.3775 (3)							(4)	3/31/2021	common stock	81539 (3)		81531 (3)	D	
Common Stock Options (to purchase shares of Common Stock)	\$6.396 (3)							(5)	8/18/2025	common stock	15634 (3)		15634 (3)	D	
Common Stock Options (to purchase shares of Common Stock)	\$6.396 (3)							(5)	8/18/2025	common stock	246154 (3)		246154 (3)	D	

Explanation of Responses:

- These Common Stock Options vested upon issuance.
- These Common Stock Options vested in three installments: 25 percent on January 18, 2017 (the grant date), 25 percent on March 31, 2017, and 50 percent on June 30, 2017, and are all currently vested.
- The exercise price and number of shares of these securities have been adjusted to reflect the Company's 325-to-1 reverse stock split effective September 1, 2016.
- These Common Stock Options vested in four equal installments: 25 percent on March 31, 2016 (the grant date), 25 percent on June 30, 2016, 25 percent on

September 30, 2016, and 25 percent on December 31, 2016, and are all currently vested.

- (5) These Common Stock Options vested in three installments: 50 percent on August 18, 2015 (the grant date), 25 percent on February 18, 2016, and 25 percent on August 18, 2016, and are all currently vested.

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
MANUSO JAMES S J C/O RESPIRERX PHARMACEUTICALS INC. 126 VALLEY ROAD, SUITE C GLEN ROCK, NJ 07452	X		President and CEO	

Signatures

/s/ James S. Manuso

7/3/2017

**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.

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