

RespireRx Pharmaceuticals Inc.  
Form 4  
January 20, 2017

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
MANUSO JAMES S J

2. Issuer Name and Ticker or Trading Symbol  
RespireRx Pharmaceuticals Inc.  
[RSPI]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction  
(Month/Day/Year)  
01/18/2017

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
President & CEO

C/O RESPIRERX  
PHARMACEUTICALS INC., 126  
VALLEY ROAD, SUITE C  
  
(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

GLEN ROCK, NJ 07452

(City) (State) (Zip)

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

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction 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 Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
|                                 |                                      |  |                                | (A) or (D)  | Price   |  |                                   |
|                                 |                                      |  |                                | Code  | V   | Amount   |                                   |

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

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SEC 1474  
(9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

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| 1. Title of Derivative Security (Instr. 3)                | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction 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 (Month/Day/Year) |     | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) |                 |              |                            |
|---|--|--------------------------------------|--|--------------------------------|---|--|-----|---|-----------------|--------------|----------------------------|
|   |  |                                      |  | Code                           | V   | (A)  | (D) | Date Exercisable  | Expiration Date | Title        | Amount or Number of Shares |
| Common Stock Options (to purchase shares of Common Stock) | \$ 3.9   | 01/18/2017                           |  | A                              |   | 75,000   |     | <u>(1)</u>  | 01/18/2017      | Common Stock | 75,000                     |
| Common Stock Warrants (right to buy)                      | \$ 4.875 <u>(2)</u>                                    |                                      |  |                                |   |  |     | 04/07/2016  | 09/30/2020      | Common Stock | 36,578 <u>(2)</u>          |
| Common Stock Warrants (right to buy)                      | \$ 6.5 <u>(2)</u>                                      |                                      |  |                                |   |  |     | 02/04/2016  | 02/04/2019      | Common Stock | 8,093 <u>(2)</u>           |
| Common Stock Options (to purchase shares of Common Stock) | \$ 7.3775 <u>(2)</u>                                   |                                      |  |                                |   |  |     | <u>(3)</u>  | 03/31/2021      | Common Stock | 81,539 <u>(2)</u>          |
| Common Stock Options (to purchase shares of Common Stock) | \$ 6.396 <u>(2)</u>                                    |                                      |  |                                |   |  |     | <u>(4)</u>  | 08/18/2025      | Common Stock | 15,634 <u>(2)</u>          |
| Common Stock Options (to                                  | \$ 6.396 <u>(2)</u>                                    |                                      |  |                                |   |  |     | <u>(4)</u>  | 08/18/2025      | Common Stock | 246,154 <u>(2)</u>         |

purchase  
shares of  
Common  
Stock)

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |                |       |
|---|---------------|-----------|----------------|-------|
|   | Director      | 10% Owner | Officer        | Other |
| MANUSO JAMES S J<br>C/O RESPIRERX PHARMACEUTICALS INC.<br>126 VALLEY ROAD, SUITE C<br>GLEN ROCK, NJ 07452 | X             |           | Preident & CEO |       |

## Signatures

/s/ James S. J.  
Manuso

01/20/2017

\*\*Signature of  
Reporting Person

Date

## Explanation of Responses:

- \* 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).
- (1) These Common Stock Options vest 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.
- (2) 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.
- (3) 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.
- (4) 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.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.