

Johnson Steven Andrew  
 Form 5  
 February 02, 2010

# FORM 5

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

OMB APPROVAL  
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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).  
 Form 3 Holdings Reported Form 4 Transactions Reported

**ANNUAL 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

1. Name and Address of Reporting Person \*  
 Johnson Steven Andrew

2. Issuer Name and Ticker or Trading Symbol  
 CORTEX PHARMACEUTICALS INC/DE/ [COR]

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)  
 Director  10% Owner  
 Officer (give title below)  Other (specify below)  
 VP, Preclinical Development

(Last) (First) (Middle)

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)  
 12/31/2009

15241 BARRANCA PARKWAY  
 (Street)

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

6. Individual or Joint/Group Reporting  
 (check applicable line)

IRVINE, CA 92618

Form Filed by One Reporting Person  
 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. 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 at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|--|--|-----------------------------------|
|                                 |                                      |  |                                | (A) or (D) Price  |  |  |                                   |
| Sale of Common Stock            | 04/13/2009                           | Â  | S4                             | 1,800 D \$ 0.36   | 550  | I  | Shares held by spouse             |
| Sale of Common Stock            | 04/13/2009                           | Â  | S4                             | 200 D \$ 0.37   | 350  | I  | Shares held by spouse             |
| Sale of Common Stock            | 04/13/2009                           | Â  | S4                             | 350 D \$ 0.38   | 0  | I  | Shares held by spouse             |

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

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SEC 2270  
(9-02)

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

| 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) | 8. Price of Derivative Security (Instr. 5) | 9. Other                   |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|----------------------------|
|  |  |                                      |  |                                |   | Date Exercisable<br>(A) (D)                              | Expiration Date   | Title                                      | Amount or Number of Shares |
|  |  |                                      |  |                                |   |  |   |  |                            |

### Reporting Owners

| Reporting Owner Name / Address                                      | Relationships |           |                                     |       |
|---|---------------|-----------|-------------------------------------|-------|
|   | Director      | 10% Owner | Officer                             | Other |
| Johnson Steven Andrew<br>15241 BARRANCA PARKWAY<br>IRVINE, CA 92618 | Â             | Â         | Â VP,<br>Preclinical<br>Development | Â     |

### Signatures

Maria S. Messinger, Attorney  
in fact 02/01/2010

\*\*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).

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.