Johnson Steven Andrew Form 5 February 02, 2010

Sale of

Stock

Common

Â

S4

350

04/13/2009

OMB APPROVAL FORM 5

OMB UNITED STATES SECURITIES AND EXCHANGE COMMISSION 3235-0362 Number: Washington, D.C. 20549 Check this box if January 31, Expires: no longer subject 2005 to Section 16. Estimated average ANNUAL STATEMENT OF CHANGES IN BENEFICIAL Form 4 or Form burden hours per 5 obligations OWNERSHIP OF SECURITIES response... 1.0 may continue. See Instruction Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section Reported 30(h) of the Investment Company Act of 1940 Form 4 Transactions Reported 1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading 5. Relationship of Reporting Person(s) to Issuer Johnson Steven Andrew Symbol **CORTEX PHARMACEUTICALS** (Check all applicable) INC/DE/ [COR] (Middle) 3. Statement for Issuer's Fiscal Year Ended (Last) (First) Director 10% Owner X _ Officer (give title Other (specify (Month/Day/Year) below) below) 12/31/2009 VP, Preclinical Development 15241 BARRANCA PARKWAY (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Reporting Filed(Month/Day/Year) (check applicable line) IRVINE, CAÂ 92618 _X_ Form Filed by One Reporting Person Form Filed by More than One Reporting (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired 5. Amount of 6. Ownership 7. Nature of (Month/Day/Year) Execution Date, if Transaction Form: Direct Indirect Security (A) or Disposed of Securities (Instr. 3) Code (D) Beneficially (D) or Beneficial (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) Owned at end Indirect (I) Ownership of Issuer's (Instr. 4) (Instr. 4) Fiscal Year (A) (Instr. 3 and or Amount (D) Price Sale of Shares Common Â 04/13/2009 **S4** 1,800 D 550 Ι held by 0.36 Stock spouse Sale of Shares Â **S**4 Common 200 350 Ι 04/13/2009 held by Stock spouse

Shares

held by

spouse

Ι

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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)

D

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

	1. Title of	2.	3. Transaction Date		4.	5.	6. Date Exerc		7. Titl		8. Price of	
	Derivative	Conversion	(Month/Day/Year)	•	Transaction	Number	Expiration D		Amou		Derivative	
	Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	, ,	Security	
	(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	Derivative	e		Securi	ities	(Instr. 5)	
		Derivative				Securities			(Instr.	3 and 4)		
		Security				Acquired						
						(A) or						
						Disposed						
						of (D)						
						(Instr. 3,						
						4, and 5)						
						,						
										Amount		
							Date Exercisable	Expiration Date	Title	or		
										Number		
										of		
						(A) (D)				Shares		

Reporting Owners

Relationships						
Director	10% Owner	Officer	Other			
Â	Â	VP, Preclinical Development	Â			
	Director \hat{A}		Director 10% Owner Officer VP,			

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.

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