FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington

AND EXCHANGE COMMISSION	OMB APPROV	ROVAL		
n, D.C. 20549	OMB Number: 3	3235-0287		
IN DENEELOIAL OVANIEDOUID	Estimated average burde	n		
IN BENEFICIAL OWNERSHIP	hours per response:	0.5		

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

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* AGRAWAL SUDHIR					IDE	2. Issuer Name and Ticker or Trading Symbol IDERA PHARMACEUTICALS, INC. [IDRA]									ck all applic Directo	able)	ıg Per	son(s) to Is	/ner
(Last) (First) (Middle) C/O IDERA PHARMACEUTICALS, INC.						3. Date of Earliest Transaction (Month/Day/Year) 12/23/2009								X	below)	er (give title w) CEO, President		Other (s below) & CSO	pecify
167 SIDNEY STREET					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)					plicable
(Street) CAMBR	AIDGE M	IA (02139											X		ed by More	•	orting Person	
(City)	(S	tate) (Zip)																
		Tab	le I - N	on-Deri	vative S	Sec	urities	Acc	quired, C	Disp	osed o	f, or Be	nef	icially	/ Owned				
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day						Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquired Disposed Of (D) (Instr. and 5)						es Formalist (D)		: Direct of the control of the contr	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	ount (A) or (D)			Reported Transact (Instr. 3	d tion(s)	(Instr. 4)		msu. 4)
			Tabl						uired, Dis						med				
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)		on of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Sec (Instr. 3 and 4		curity	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	i Ily	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership ect (Instr. 4)
					Code	v	(A)	(D)	Date Exercisabl		xpiration ate	Title	or Nu of	mber ares					
Stock Options	\$5.24	12/23/2009			A		300,000		(1)	1	2/23/2019	Common Stock	300	0,000	\$0.00	300,00	0	D	

Explanation of Responses:

1. The options vest in equal quarterly installments over four years, beginning on December 23, 2009.

Remarks:

/s/Sudhir Agrawal

12/23/2009

** 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.