FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
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

Name and Address of Reporting Person* Bexon Alice					IDE	2. Issuer Name and Ticker or Trading Symbol IDERA PHARMACEUTICALS, INC. [IDRA]									eck all appl Direct	or	g Pei	rson(s) to Is 10% Ov	ner
(Last) (First) (Middle) C/O IDERA PHARMACEUTICALS, INC.					3. Date of Earliest Transaction (Month/Day/Year) 12/23/2009									X below	Officer (give title below) V.P. Clinical		below)	. ,	
167 SIDNEY ST.					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)				
(Street) CAMBR	IDGE M	IA (02139													filed by One filed by More n		•	
(City)	(8	tate) (Zip)																
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day)						Execution Date,			3. Transaction Code (Instr.) 8) 4. Securities Acquir Disposed Of (D) (Instr.) 6)						Securit Benefic Owned	ecurities eneficially vned		n: Direct r ect (I)	7. Nature of Indirect Beneficial Ownership
									Code	v	Amoun	ınt (A) or (D)		Price			(Inst	r. 4)	(Instr. 4)
	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. Transact Code (In 8)		on of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	,	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisable		piration	Title	or Nui of	ount mber ares					
Stock Options	\$5.24	12/23/2009			A		24,000		(1)	12	/23/2019	Common Stock	24	,000	\$0.00	24,000		D	

Explanation of Responses:

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

Remarks:

/s/Alice S. Bexon

12/23/2009

** Signature of Reporting Person Da

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.