FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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

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 [*] Slater Eve Elizabeth (Last) (First) (Middle)						2. Issuer Name and Ticker or Trading Symbol <u>IDERA PHARMACEUTICALS, INC.</u> [IDRA] 3. Date of Earliest Transaction (Month/Day/Year) 08/16/2013									telationship of Reporting F eck all applicable) X Director Officer (give title below)			erson(s) to Is 10% O Other (below)	wner
19 KENILWORTH DRIVE (Street) SHORT HILLS NJ 07078 (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Inc Line) X					
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transact Date (Month/Day					tion	n 2A. Deemed Execution Date,			3. Transact Code (In	ion	4. Secu	rities Acq ed Of (D) (uired (A) or Instr. 3, 4		5. Amo Securit Benefic Owned Follow Report Transa	5. Amount of Securities Beneficially Owned		m: Direct	7. Nature of Indirect Beneficial Ownership (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. Deeme Execution if any (Month/Da	ed n Date,	4. Transaction Code (Instr. 8)		i of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8 0 5 (1	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	у	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)		Date Exercisable		piration te	Title	Amou or Numb of Share	oer					
Stock Option	\$1.5	08/16/2013			Α		40,000		(1)	08,	/16/2023	Common Stock	40,0	00	\$0.00	40,000		D	

Explanation of Responses:

1. The option vests in twelve equal quarterly installments over three years from the date of grant, with the first installment vesting on November 16, 2013.

Remarks:

/s/ Eve E. Slater

08/16/2013

** 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.

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