## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL								
OMB Number:	3235-0287							
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1. Name and Address of Reporting Person* Slater Eve Elizabeth			2. Issuer Name <b>and</b> Ticker or Trading Symbol IDERA PHARMACEUTICALS, INC. [IDRA]	5. Relationship of Reporting Person(s) to Issuer				
(Last) 19 KENILWO	(Last) (First) (Middle) 19 KENILWORTH DRIVE		3. Date of Earliest Transaction (Month/Day/Year) 06/16/2010	(Check all applicable)  X Director 10% Owner  Officer (give title below) (specify below)				
(Street) SHORT HILLS	NJ	07078	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing Check Applicable Line) X Form filed by One Reporting Person				
(City)	(State)	(Zip)		Form filed by More than One Reporting Person				

	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned											
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	Execution Date,	3. Transact Code (Instr. 8)		Dispose	d (A) or d of (D) , 4 and 5)		5. Amount of Securities Beneficially Owned	6. Ownership Form: Direct (D)	7. Nature of Indirect Beneficial Ownership		
			Code	V	(A) or		Following or Indirect (I) Transaction(s) (Instr. 3 and 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. Transac Code (Instr. 8)	Fransaction Number of Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)		n Amount of Underlying		8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option	\$ 4.05	06/16/2010		A		16,000		(1)	06/16/2020	Common Stock	16,000	\$ 0	16,000	D	

## **Explanation of Responses:**

1. The stock options vest in equal quarterly installments over three years, beginning on September 16, 2010.

/s/Eve E. Slater 06/18/2010

\*\* Signature of Reporting 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.