FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

	OMB APPROVAL										
	OMB Number:	3235-0287									
	Estimated average burden										
I	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*  Arbeit Robert D.  (Last) (First) (Middle)  IDERA PHARMACEUTICALS, INC.  167 SIDNEY STREET  (Street)  CAMBRIDGE MA 02139  (City) (State) (Zip)						2. Issuer Name and Ticker or Trading Symbol IDERA PHARMACEUTICALS, INC. [IDRA]  3. Date of Earliest Transaction (Month/Day/Year) 05/22/2013  4. If Amendment, Date of Original Filed (Month/Day/Year)								S. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner  X Officer (give title Other (specify below)  VP Clinical Development  6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person  Form filed by More than One Reporting Person					
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transacti Date (Month/Day					ction ay/Year)	ion ZA. Deemed Execution Date, if any (Month/Day/Year)			3. Transactic Code (Inst 8)	4. Securi Dispose and 5)		ities Acquired (A) c d Of (D) (Instr. 3, 4		or 4	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Dwnership Instr. 4)
1. Title of Derivative Security (Instr. 3)	tle of 2. vative Conversion or Exercise Price of Detrivative Security  (e.g., 3. Transaction Date Execution Date, if any (Month/Day/Year)			4. Transact	Fransaction Code (Instr. B)  B)  Code (Instr. Disposed of (D) (Instr. 3, 4 and 5)								ity i	nea  3. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
Stock Option (Right to Buy)	\$0.69	05/22/2013			A		217,750		(1)	05	5/22/2023	Common Stock	217,7	50	\$0.00	217,75	50	D	

## Explanation of Responses:

1. The option vests with respect to 40% of the underlying shares on the first anniversary of the date of grant and with respect to 20% of the underlying shares on each of the second, third and fourth anniversaries of the date of grant.

## Remarks:

<u>/s/ Robert D. Arbeit</u> <u>05/24/2013</u>

\*\* Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.