FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
OMB Number:	3235-0287						
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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* Arcudi III Louis J (Last) (First) (Middle) C/O 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) 12/27/2010 4. If Amendment, Date of Original Filed (Month/Day/Year)								Relationship of Reporting In Check all applicable) Director X Officer (give title below) Chief Financi Individual or Joint/Group Fine) X Form filed by One Riverson			ncial o Filin	10% Owner Other (specify below) ial Officer illing (Check Applicable eporting Person	
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day) Table II - Derivati					etion ay/Year) tive Se	Execution Date,			3. Transacti Code (Ins 8) Code	on str.	4. Securities Acquing Disposed Of (D) (I and 5) V Amount (A) (D) posed of, or Bene		or Pri	or 4	5. Amo Securit Benefic Owned Followi Report Transa (Instr. 3	ount of ties For (D) Ind (Ins		m: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
1. Title of Derivative Security (Instr. 3)	Title of 2. 3. Transaction 3A. Deeme Execution curity or Exercise (Month/Day/Year)		n Date, Transac Code (In				ive ies ed	6. Date Exer Expiration I (Month/Day/	Date Year	Amount of Securities Underlying Derivative Security (Instr. and 4)		Amour or Numbe	unt		9. Number of derivative securities Beneficially Owned Following Reported Transactions (Instr. 4)		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership	
Stock Option (Right to Buy)	\$2.74	12/27/2010			Code A	v	95,000	(D)	(1)	Da		Common Stock	95,00	0	\$0.00	95,000		D	

Explanation of Responses:

 $1. \ The \ option \ vests \ in \ equal \ quarterly \ installments \ over \ four \ years, \ beginning \ on \ December \ 27, \ 2010.$

Remarks:

/s/Louis J. Arcudi, III 12/28/2010

** 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.

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