FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
OMB Number: 3235-02								
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

1. Name and Address of Reporting Person* MacCoss Malcolm					IDE	2. Issuer Name and Ticker or Trading Symbol IDERA PHARMACEUTICALS, INC. [IDRA]									eck all appl	ipplicable)		Person(s) to Issuer	
(Last) 2556 SE	`	rst) (Middle)			3. Date of Earliest Transaction (Mor 01/25/2010						r)			Office below	icer (give title ow)		Other (s	specify
(Street) SEABRO ISLAND (City)	SC	-	29455 Zip)		4. If A	men	ndment,	Date	of Original	Filed	(Month/	Day/Year	r)	Line	e) <mark>X</mark> Form	Joint/Group filed by One filed by More n	Repo	orting Perso	on
		Tab	le I - No	on-Deriv	ative S	Sec	urities	s Ac	quired, [)isp	osed o	of, or B	ene	ficial	ly Owne	d			
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day						Execution Date,			3. Transaction Code (Instr.) 8) 4. Securities Acquired Disposed Of (D) (Instr. and 5)					Securit Benefic Owned	ties Fo cially (D		Ownership orm: Direct O) or adirect (I)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amoun	nt (A) or (D)		Price				r. 4)	(Instr. 4)
		T	able II						uired, Dis						Owned				
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 an 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 Indirec (I) (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr.	Beneficial Ownership
					Code	v	(A)	(D)	Date Exercisable		piration te	Title	or Nui of	mber ares					
Stock Options	\$5.35	01/25/2010			A		16,000		(1)	01.	/25/2020	Common	16	,000	\$0.00	16,000		D	

Explanation of Responses:

 $1. \ The \ stock \ options \ vest \ in \ equal \ quarterly \ installments \ over \ three \ years, \ beginning \ on \ January \ 25, \ 2010.$

Remarks:

/s/ Malcolm MacCoss

01/25/2010

** Signature of Reporting Person

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.