FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL								
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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 a AGRA (Last) C/O IDE 345 VAS (Street) CAMBR	IDE IDP] 3. Dat 05/1	2. Issuer Name and Ticker or Trading Symbol IDERA PHARMACEUTICALS, INC. [IDP] 3. Date of Earliest Transaction (Month/Day/Year) 05/17/2007 4. If Amendment, Date of Original Filed (Month/Day/Year)									S. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner X Officer (give title Other (specify below) below) CEO & CSO 6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting								
(City)	(S	tate) (Zip)		,	Person													·
		Tab	le I - No	on-Deriv	ative S	Sec	uriti	es Ac	quired,	Disp	osed	of, or E	Benef	ficia	Ily Own	ed			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day						Execution Date,			Code (li						Secur Benef Owner Follow	icially d wing		ect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v			() or	Price		rted action(s) 3 and 4)			
Common Stock 05/17/2						2007			M		750 A		A	\$4	1 2	26,178		D	
	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	ned on Date,	4. Transaction Code (Instr		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exe Expiration (Month/Day	ole and	d 7. Title and Amount of Securities Underlying Derivative Security (Instr. : and 4) Amou or Numb		. 3	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction ((Instr. 4)	Ov Fo Di or (I) 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
Stock					Code	v	(A)	(D)	Exercisable	Dat	e	Title Common	Shar				\perp		
Options	\$4	05/17/2007			M			750	05/21/2001	05/	21/2007	Stock	75	0	\$0.00	0		D	

Explanation of Responses:

Remarks:

Sudhir Agrawal 05/17/2007

** Signature of Reporting Person Date

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

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.

^{*} 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).