FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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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 [*] Baker Brothers Life Sciences Capital (GP), LLC				2. Issuer Name and Ticker or Trading Symbol IDERA PHARMACEUTICALS, INC. [IDP]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director X 10% Owner Officer (give title Other (specify below) below)										
(Last)	(Firs	st) (N	/iddle)		3. Date of Earliest Transaction (Month/Day/Year) 07/28/2008							belov	N)		b	elow)					
667 MADISON AVENUE, 17TH FLOOR					4. If Amendment, Date of Original Filed (Month/Day/Year) 07/30/2008							6. Individual or Joint/Group Filing (Check Applicable Line)									
(Street) NEW YORK NY US 10021					Form filed by One Reporting Person X Form filed by More than One Reporting Person																
(City) (State) (Zip)																					
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)	Execu) if any	2A. Deemed Execution Date, if any (Month/Day/Year)		Cod		ransaction Code (Instr.		4. Securities Ac Disposed Of (D 5)		Acquired (A) or D) (Instr. 3, 4 and		Beneficially Owned		6. Own Form: (D) or Indired	Direct :t (I)	Indir Bene Owne	7. Nature of ndirect Beneficial Dwnership	
							c	Code	v	Ar	mount	(A) or (D)	Price		Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4) ((Instr. 4)		
Common Stock ⁽¹⁾⁽²⁾			07/28/2008				S			5,901	D \$14.87		726	437,700		I		Through Partnership ⁽³⁾			
Common Stock ⁽¹⁾⁽²⁾			07/29/2008				S			19,670	D \$14.931		31	418,030]			ough nership ⁽³⁾		
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																					
Derivative	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 (Ir 8)		n of r. Der Sec (A) Dis of (ivativ uritie uire or oose D) tr. 3,	umber 6. Date E Expiratio (Month/D urities uired or osed)) r. 3, 4					7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Num derivati Securit Benefic Owned Followi Reporte Transac (Instr. 4	ve ies ially ng ed ction(s)	Owners Form: Direct or Indi (I) (Inst 4)		11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D) Dat	te ercisa	able	Expiratio Date	n Title	Amor or Numl of Share	ber							
1. Name and Address of Reporting Person [®] Baker Brothers Life Sciences Capital (GP),					T																
(Last) (First) (Middle) 667 MADISON AVENUE, 17TH FLOOR (Street)																					

(City)

NEW YORK

(State)

NY

US 10021 (Zip)

1. Name and Addres BAKER JUL		son*						
(Last)	(First)	(Middle)						
667 MADISON A	VENUE, 17TH	FLOOR						
(Street)			_					
NEW YORK	NY	US 10021						
(City)	(State)	(Zip)						
1. Name and Address of Reporting Person [*] BAKER FELIX								
(Last)	(First)	(Middle)						
667 MADISON AVENUE, 17TH FLOOR								
(Street)								
NEW YORK	NY	US 10021						
(City)	(State)	(Zip)						

Explanation of Responses:

1. In addition to Baker Brothers Life Sciences Capital (GP), LLC, this Form 4 is being filed jointly by Julian C. Baker and Felix J. Baker, each of whom has the same business address as Baker Brothers Life Sciences Capital (GP), LLC and may be deemed to have a pecuniary interest in securities owned by it. Because of certain relationships with other security holders of the Issuer, the Reporting Persons are filing solely for informational purposes as if they were members of a group of such shareholders. (Continued in footnote 2).

2. However, the Reporting Persons disclaim that they and any other person or persons, in fact constitute a "group" for purposes of Section 13(d)(3) of the Securities Exchange Act of 1934, as amended, or Rule 13d-5 thereunder or that they are the beneficial owners of securities owned by any such other persons, and each of them disclaims beneficial ownership of securities reported herein except to the extent of their pecuniary interest, if any, therein.

3. Represents securities owned directly by Baker Brothers Life Sciences, L.P., the sole general partner of which is Baker Brothers Life Sciences Capital, L.P., a limited partnership the sole general partner of which is Baker Brothers Life Sciences Capital (GP), LLC. Julian C. Baker and Felix J. Baker are the controlling members of Baker Brothers Life Sciences Capital (GP), LLC.

<u>/s/ Julian C. Baker, as</u>	
Managing Member of Baker	09/30/2008
Brothers Life Sciences Capital	<u>1 09/30/2008</u>
<u>(GP), LLC</u>	
/s/ Julian C. Baker	<u>09/30/2008</u>
/s/ Felix J. Baker	<u>09/30/2008</u>
** 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.

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.