

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 and Address of Reporting Person* <u>Baker Bros. Capital (GP), LLC</u> <hr/> (Last) (First) (Middle) 667 MADISON AVENUE 17TH FLOOR <hr/> (Street) NEW YORK NY US 10021 <hr/> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>IDERA PHARMACEUTICALS, INC. [IDP]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) 10/29/2007	
4. If Amendment, Date of Original Filed (Month/Day/Year) 10/31/2007		

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			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 Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock ⁽¹⁾⁽²⁾	10/29/2007		S ⁽³⁾		3,317 ⁽⁹⁾	D	\$12.4669	130,610	I	Through Partnership ⁽⁶⁾
Common Stock ⁽¹⁾⁽²⁾	10/30/2007		S ⁽⁴⁾		3,099	D	\$12.0286	127,511	I	Through Partnership ⁽⁷⁾
Common Stock ⁽¹⁾⁽²⁾	10/31/2007		S ⁽⁵⁾		2,337	D	\$11.6955	125,174	I	Through Partnership ⁽⁸⁾

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)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. 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)
				Code	V		Date Exercisable	Expiration Date					

1. Name and Address of Reporting Person* <u>Baker Bros. Capital (GP), LLC</u> <hr/> (Last) (First) (Middle) 667 MADISON AVENUE 17TH FLOOR <hr/> (Street) NEW YORK NY US 10021 <hr/> (City) (State) (Zip)		
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1. Name and Address of Reporting Person*		
BAKER JULIAN		
(Last)	(First)	(Middle)
667 MADISON AVENUE, 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:

- In addition to Baker Bros. Capital (GP), LLC, this Form 4 is being filed jointly by Felix J. Baker and Julian C. Baker, each of whom has the same business address as Baker Bros. Capital (GP), LLC and may be deemed to have a pecuniary interest in securities owned by it. Felix J. Baker and Julian C. Baker are directors of the Issuer. Because of certain business and family 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 with such security holders. (Continued in footnote 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 owner of securities owned by such other persons, and each of them declares beneficial ownership of securities reported herein except to the extent of their pecuniary interest, if any, therein.
- Represents 1,574 shares sold by Baker Bros. Investments II, L.P. and 1,743 shares sold by Baker Bros. Investments, L.P.
- Represents 1,471 shares sold by Baker Bros. Investments II, L.P. and 1,628 shares sold by Baker Bros. Investments, L.P.
- Represents 1,109 shares sold by Baker Bros. Investments II, L.P. and 1,228 shares sold by Baker Bros. Investments, L.P.
- Represents shares 62,003 shares owned directly by Baker Bros. Investments II, L.P. and 68,607 shares owned directly by Baker Bros. Investments, L.P., limited partnerships of which the sole general partner is Baker Bros. Capital, L.P., a limited partnership of which the sole general partner is Baker Bros. Capital (GP), LLC. Felix J. Baker and Julian C. Baker are controlling members of Baker Bros. Capital (GP), LLC.
- Represents shares 60,532 shares owned directly by Baker Bros. Investments II, L.P. and 66,979 shares owned directly by Baker Bros. Investments, L.P., limited partnerships of which the sole general partner is Baker Bros. Capital, L.P., a limited partnership of which the sole general partner is Baker Bros. Capital (GP), LLC. Felix J. Baker and Julian C. Baker are controlling members of Baker Bros. Capital (GP), LLC.
- Represents shares 59,423 shares owned directly by Baker Bros. Investments II, L.P. and 65,751 shares owned directly by Baker Bros. Investments, L.P., limited partnerships of which the sole general partner is Baker Bros. Capital, L.P., a limited partnership of which the sole general partner is Baker Bros. Capital (GP), LLC. Felix J. Baker and Julian C. Baker are controlling members of Baker Bros. Capital (GP), LLC.
- The profit realized on the sale of 174 shares by Baker Bros. Investments II, L.P. and the sale of 192 shares by Baker Bros. Investments, L.P. of the 1,574 shares and 1,743 shares sold by Baker Bros. Investments II, L.P. and Baker Bros. Investments, L.P., respectively, is being remitted to the Issuer. The 174 shares and 192 shares were originally purchased by Baker Bros. Investments II, L.P. and Baker Bros. Investments, L.P., respectively, on June 20, 2007.

[/s/ Julian C. Baker as
Managing Member of Baker
Bros. Capital \(GP\), LLC](#) [11/01/2007](#)

[/s/ Julian C. Baker](#) [11/01/2007](#)

[/s/ Felix J. Baker](#) [11/01/2007](#)

** 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.