

IDERA PHARMACEUTICALS, INC.

Form 3/A

August 17, 2006

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,
 Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

| | | | | | | |
|---|---------|----------|--|--|--|--|
| 1. Name and Address of Reporting Person * | | | 2. Date of Event Requiring Statement | | 3. Issuer Name and Ticker or Trading Symbol | |
| Â Baker Biotech Capital II (Z) (GP), LLC | | | (Month/Day/Year) | | IDERA PHARMACEUTICALS, INC. [IDP] | |
| (Last) | (First) | (Middle) | 4. Relationship of Reporting Person(s) to Issuer | | 5. If Amendment, Date Original Filed(Month/Day/Year) | |
| 667 MADISON AVE 17TH FLOOR | | | (Check all applicable) | | 03/28/2006 | |
| (Street) | | | ___ Director ___X___ 10% Owner | | 6. Individual or Joint/Group Filing(Check Applicable Line) | |
| NEW YORK,Â NYÂ 10021 | | | ___ Officer ___ Other | | ___ Form filed by One Reporting Person | |
| (City) | (State) | (Zip) | (give title below) (specify below) | | _X_ Form filed by More than One Reporting Person | |

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Common Stock ⁽¹⁾ | 674,120 ⁽³⁾ | I | See Footnote ⁽²⁾ |

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

SEC 1473 (7-02)

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Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of Derivative | 5. Ownership Form of Derivative Security: | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|---|---|---|---|
|--|--|---|---|---|---|

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| | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | Security | Direct (D) or Indirect (I) (Instr. 5) | |
|---------|------------------|-----------------|--------------|----------------------------|----------|---------------------------------------|-----------------------------|
| Warrant | 09/26/2006 | 09/26/2011 | Common Stock | 505,590 | \$ 0.65 | I | See Footnote ⁽³⁾ |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| Baker Biotech Capital II (Z) (GP), LLC 667 MADISON AVE 17TH FLOOR NEW YORK, NY 10021 | Â | Â X | Â | Â |
| BAKER JULIAN 667 MADISON AVENUE NEW YORK, NY 10021 | Â | Â X | Â | Â |
| BAKER FELIX 667 MADISON AVENUE NEW YORK, NY 10021 | Â | Â X | Â | Â |

Signatures

| | |
|---|------------|
| /s/ Julian C. Baker, as Managing Member of Baker Biotech Capital II (Z) (GP), LLC | 08/17/2006 |
| __Signature of Reporting Person | Date |
| /s/ Julian C. Baker | 08/17/2006 |
| __Signature of Reporting Person | Date |
| /s/ Felix J. Baker | 08/17/2006 |
| __Signature of Reporting Person | Date |

Explanation of Responses:

* If the form is filed by more than one reporting person, *see* Instruction 5(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).

(1) In addition to Baker Biotech Capital II (Z) (GP), LLC, this Form 3 is being filed jointly by Julian C. Baker and Felix J. Baker, each of whom has the same business address as Baker Biotech Capital II (Z) (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 a member 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 Biotech Fund II (Z), L.P., a limited partnership the sole general partner of which is Baker Biotech Capital II (Z), L.P., a limited partnership the sole general partner of which is Baker Biotech Capital II (Z) (GP), LLC. Felix J. Baker and Julian C. Baker are the controlling members of Baker Biotech Capital II (Z) (GP), LLC.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.