

SCHEDULE 13G

SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549

Under the Securities Exchange Act of 1934
(Amendment No. 2)*

Idera Pharmaceuticals, Inc.

(Name of Issuer)

Common Stock, par value \$0.001 per share

(Title of Class of Securities)

45168K405

(CUSIP Number)

March 31, 2021

(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

Rule 13d-1(b)

Rule 13d-1(c)

Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 (the "Act") or otherwise subject to the liabilities of that section of the Act, but shall be subject to all other provisions of the Act (however, see the Notes).

| | | | |
|--|---|--|--|
| 1 | NAMES OF REPORTING PERSONS Baker Bros. Advisors LP | | |
| 2 | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) <input type="checkbox"/> (b) <input type="checkbox"/> | | |
| 3 | SEC USE ONLY | | |
| 4 | CITIZENSHIP OR PLACE OF ORGANIZATION Delaware | | |
| NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH | 5 | SOLE VOTING POWER 2,066,535 (1) | |
| | 6 | SHARED VOTING POWER -0- | |
| | 7 | SOLE DISPOSITIVE POWER 2,066,535 (1) | |
| | 8 | SHARED DISPOSITIVE POWER -0- | |
| 9 | AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,066,535 (1) | | |
| 10 | CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions) <input type="checkbox"/> | | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 4.9% (1)(2) | | |
| 12 | TYPE OF REPORTING PERSON (See Instructions) IA, PN | | |

(1) Includes 19,355 shares of the common stock (“Common Stock”) of Idera Pharmaceuticals, Inc. (the “Issuer”) issuable upon the conversion or exercise of Derivative Securities (as defined in Item 4) of the Issuer.
 (2) Based on 42,273,104 shares of the Common Stock of the Issuer outstanding as of March 19, 2021, as per information received from the Issuer.

| | | | |
|--|---|--|--|
| 1 | NAMES OF REPORTING PERSONS Baker Bros. Advisors (GP) LLC | | |
| 2 | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) <input type="checkbox"/> (b) <input type="checkbox"/> | | |
| 3 | SEC USE ONLY | | |
| 4 | CITIZENSHIP OR PLACE OF ORGANIZATION Delaware | | |
| NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH | 5 | SOLE VOTING POWER 2,066,535 (1) | |
| | 6 | SHARED VOTING POWER -0- | |
| | 7 | SOLE DISPOSITIVE POWER 2,066,535 (1) | |
| | 8 | SHARED DISPOSITIVE POWER -0- | |
| 9 | AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,066,535 (1) | | |
| 10 | CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions) <input type="checkbox"/> | | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 4.9% (1)(2) | | |
| 12 | TYPE OF REPORTING PERSON (See Instructions) HC, OO | | |

(1) Includes 19,355 shares of Common Stock of the Issuer issuable upon the conversion or exercise of Derivative Securities (as defined in Item 4) of the Issuer.

(2) Based on 42,273,104 shares of the Common Stock of the Issuer outstanding as of March 19, 2021, as per information received from the Issuer.

| | | | |
|--|--|--|--|
| 1 | NAMES OF REPORTING PERSONS Felix J. Baker | | |
| 2 | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) | | (a) <input type="checkbox"/> (b) <input type="checkbox"/> |
| 3 | SEC USE ONLY | | |
| 4 | CITIZENSHIP OR PLACE OF ORGANIZATION United States | | |
| NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH | 5 | SOLE VOTING POWER 2,088,464 (1) | |
| | 6 | SHARED VOTING POWER -0- | |
| | 7 | SOLE DISPOSITIVE POWER 2,088,464 (1) | |
| | 8 | SHARED DISPOSITIVE POWER -0- | |
| 9 | AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,088,464 (1) | | |
| 10 | CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions) | | <input type="checkbox"/> |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 4.9% (1)(2) | | |
| 12 | TYPE OF REPORTING PERSON (See Instructions) IN, HC | | |

(1) Includes 19,355 shares of Common Stock of the Issuer issuable upon the conversion or exercise of Derivative Securities (as defined in Item 4) of the Issuer.
 (2) Based on 42,273,104 shares of the Common Stock of the Issuer outstanding as of March 19, 2021, as per information received from the Issuer.

| | | | |
|--|---|--|--|
| 1 | NAMES OF REPORTING PERSONS Julian C. Baker | | |
| 2 | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) <input type="checkbox"/> (b) <input type="checkbox"/> | | |
| 3 | SEC USE ONLY | | |
| 4 | CITIZENSHIP OR PLACE OF ORGANIZATION United States | | |
| NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH | 5 | SOLE VOTING POWER 2,088,464 (1) | |
| | 6 | SHARED VOTING POWER -0- | |
| | 7 | SOLE DISPOSITIVE POWER 2,088,464 (1) | |
| | 8 | SHARED DISPOSITIVE POWER -0- | |
| 9 | AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,088,464 (1) | | |
| 10 | CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions) <input type="checkbox"/> | | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 4.9% (1)(2) | | |
| 12 | TYPE OF REPORTING PERSON (See Instructions) IN, HC | | |

(1) Includes 19,355 shares of Common Stock of the Issuer issuable upon the conversion or exercise of Derivative Securities (as defined in Item 4) of the Issuer.

(2) Based on 42,273,104 shares of the Common Stock of the Issuer outstanding as of March 19, 2021, as per information received from the Issuer.

| | | | |
|--|---|--|--|
| 1 | NAMES OF REPORTING PERSONS FBB3 LLC | | |
| 2 | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) <input type="checkbox"/> (b) <input type="checkbox"/> | | |
| 3 | SEC USE ONLY | | |
| 4 | CITIZENSHIP OR PLACE OF ORGANIZATION Delaware | | |
| NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH | 5 | SOLE VOTING POWER 4,112 (1) | |
| | 6 | SHARED VOTING POWER -0- | |
| | 7 | SOLE DISPOSITIVE POWER 4,112 (1) | |
| | 8 | SHARED DISPOSITIVE POWER -0- | |
| 9 | AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 4,112 (1) | | |
| 10 | CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions) <input type="checkbox"/> | | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 0.01% (1)(2) | | |
| 12 | TYPE OF REPORTING PERSON (See Instructions) OO | | |

(1) Includes 4,112 shares of Common Stock of the Issuer issuable upon the conversion or exercise of Derivative Securities (as defined in Item 4) of the Issuer.

(2) Based on 42,273,104 shares of the Common Stock of the Issuer outstanding as of March 19, 2021, as per information received from the Issuer.

Amendment No. 2 to Schedule 13G

This Amendment No. 2 to Schedule 13G amends the previously filed Schedule 13G filed by Baker Bros. Advisors LP (the "Adviser"), Baker Bros. Advisors (GP) LLC (the "Adviser GP"), Julian C. Baker, Felix J. Baker and FBB3 LLC ("FBB3", and together with the Adviser, the Adviser GP, Julian C. Baker and Felix J. Baker, the "Reporting Persons"). Except as supplemented herein, such statements, as heretofore amended and supplemented, remain in full force and effect.

Item 1(a) Name of Issuer:

Idera Pharmaceuticals, Inc.

Item 1(b) Address of Issuer's Principal Executive Offices:

505 Eagleview Blvd., Suite 212

Exton, Pennsylvania 19341

Item 2(a) Name of Person Filing:

This Amendment No. 2 is being filed jointly by the Reporting Persons.

Item 2(b) Address of Principal Business Office or, if None, Residence:

The business address of each of the Reporting Persons is:

c/o Baker Bros. Advisors LP

860 Washington Street, 3rd Floor

New York, NY 10014

(212) 339-5690

Item 2(c) Citizenship:

The Adviser is a limited partnership organized under the laws of the State of Delaware. The Adviser GP is a limited liability company organized under the laws of the State of Delaware. The citizenship of each of Julian C. Baker and Felix J. Baker is the United States of America. FBB3 is a limited liability company organized under the laws of the state of Delaware.

Item 2(d) Title of Class of Securities:

Common Stock, par value \$0.001 per share ("Common Stock")

Item 2(e) CUSIP Number:

45168K405

Item 3. If this statement is filed pursuant to §§240.13d-1(b) or (c), check whether the person filing is a:

- (a) Broker or dealer registered under Section 15 of the Exchange Act.
- (b) Bank as defined in section 3(a)(6) of the Exchange Act.
- (c) Insurance company as defined in section 3(a)(19) of the Exchange Act.
- (d) Investment company registered under section 8 of the Investment Company Act of 1940.
- (e) An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E).
- (f) An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F).
- (g) A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G).
- (h) A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act.
- (i) A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940.
- (j) Group, in accordance with Rule 13d-1(b)(1)(ii)(J).

Item 4. Ownership.

Items 5 through 9 and 11 of each of the cover pages to this Amendment No. 2 are incorporated herein reference.

Set forth below is the aggregate number of shares of Common Stock directly held by each of 667, L.P. (“667”) and Baker Brothers Life Sciences, L.P. (“Life Sciences”, and together with 667, the “Funds”), which may be deemed to be indirectly beneficially owned by the Reporting Persons plus 19,355 shares of Common Stock of the Issuer issuable upon the conversion or exercise of Derivative Securities (as defined in Item 4) of the Issuer.

The information set forth below is based upon 42,273,104 shares of Common Stock outstanding as of March 19, 2021, as per information received from the Issuer. Such percentage figures are calculated in accordance with Rule 13d-3 under the Securities Exchange Act of 1934, as amended.

| Name | Number of Shares of Common Stock we own or have to right to acquire within 60 days | Percent of Class Outstanding |
|------------------------------------|--|------------------------------|
| 667, L.P. | 237,699 | 0.6% |
| Baker Brothers Life Sciences, L.P. | 1,828,836 | 4.3% |
| Total | 2,066,535 | 4.9% |

Julian. C Baker and Felix J. Baker each hold 21,929 shares of Common Stock.

In addition, the Funds and certain Reporting Persons directly hold certain warrants to purchase Common Stock or convertible preferred stock of the Issuer (such warrants and convertible preferred stock, collectively, the "Derivative Securities"). As reflected in the table above the Funds have a present right to acquire an aggregate of 19,355 shares of Common Stock through the exercise or conversion of Derivative Securities. The remainder of the Derivative Securities held by the Funds or certain other Reporting Persons do not currently represent beneficial ownership of the Common Stock for the Reporting Persons because either the Derivative Securities or the underlying series of convertible preferred stock of the Issuer are subject to beneficial ownership limitations on exercise or conversion such that the Reporting Persons do not have a present right to acquire shares of Common Stock within 60 days.

The Adviser GP is the sole general partner of the Adviser. Pursuant to the management agreements, as amended, among the Adviser, Life Sciences and 667 and their respective general partners, the Funds' respective general partners relinquished to the Adviser all discretion and authority with respect to the investment and voting power of the securities held by the Funds, and thus the Adviser has completed and unlimited discretion and authority with respect to the Funds' investments and voting power over investments.

Julian C. Baker and Felix J. Baker are also the sole managers of FBB3 and by policy they do not transact in or vote the securities of the Issuer held by FBB3.

Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following .

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

N/A

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

The information in Item 4 is incorporated herein by reference.

Item 8. Identification and Classification of Members of the Group.

N/A

Item 9. Notice of Dissolution of Group.

N/A

Item 10. Certification.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

April 9, 2021

BAKER BROS. ADVISORS LP

By: Baker Bros. Advisors (GP) LLC, its general partner

By: /s/ Scott L. Lessing

Name: Scott L. Lessing

Title: President

BAKER BROS. ADVISORS (GP) LLC

By: /s/ Scott L. Lessing

Name: Scott L. Lessing

Title: President

/s/ Julian C. Baker

Julian C. Baker

/s/ Felix J. Baker

Felix J. Baker

FBB3 LLC

/s/ Julian C. Baker

Julian C. Baker