Global Blood Therapeutics, Inc. Form SC 13G/A February 14, 2017

SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

SCHEDULE 13G (Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b)(c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)

(Amendment No. 1) *

Global Blood Therapeutics, Inc.

(Name of Issuer)

Common Stock

(Title of Class of Securities)

37890U108

(CUSIP Number)

December 31, 2016

(Date of Event Which Requires Filing of this Statement)

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

o Rule 13d-1(b)

x Rule 13d-1(c)

o Rule 13d-1(d)

(Page 1 of 15 Pages)

The information required in 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 or otherwise subject to the liabilities of that section of the Act but

^{*} 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 the disclosures provided in a prior cover page.

shall be subject to all other provisions of the Act (however, see the Notes).

PN

1. NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) Deerfield Mgmt, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A 2. (a) o GROUP* (b) ý 3. SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION 4. Delaware 5. SOLE VOTING POWER NUMBER OF 0 **SHARES** SHARED VOTING POWER 6. **BENEFICIALLY** OWNED BY 0 **EACH** 7. SOLE DISPOSITIVE POWER **REPORTING** PERSON WITH 8. SHARED DISPOSITIVE POWER 0 9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING **PERSON** 0 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) 10. **EXCLUDES CERTAIN SHARES*** 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 0.00% TYPE OF REPORTING PERSON* 12.

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NAME OF REPORTING PERSONS
 I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

Deerfield Management Company, L.P.

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) o GROUP* (b) \circ

- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5. SOLE VOTING POWER

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH 0

6. SHARED VOTING POWER

171,428 (1)

REPORTING PERSON WITH

7. SOLE DISPOSITIVE POWER

0

8. SHARED DISPOSITIVE POWER

171,428 (1)

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

171,428 (1)

- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) $_{
 m O}$ EXCLUDES CERTAIN SHARES*
- 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

0.46%

12. TYPE OF REPORTING PERSON*

⁽¹⁾ Comprised of 171,428 shares of common stock held by Deerfield Private Design Fund III, L.P., of which Deerfield Management Company, L.P. is the investment advisor.

1. NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) Deerfield Partners, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A 2. (a) o GROUP* (b) ý 3. SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION 4. Delaware 5. SOLE VOTING POWER NUMBER OF 0 **SHARES** SHARED VOTING POWER 6. **BENEFICIALLY** OWNED BY 0 **EACH** 7. SOLE DISPOSITIVE POWER **REPORTING** PERSON WITH 8. SHARED DISPOSITIVE POWER 0 9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING **PERSON** 0 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) 10. **EXCLUDES CERTAIN SHARES*** 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 0.00% TYPE OF REPORTING PERSON* 12. PN

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CUSIP No. 37890U108 13G 1. NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) Deerfield Special Situations Fund, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A 2. (a) o GROUP* (b) ý 3. SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION 4. Delaware 5. SOLE VOTING POWER NUMBER OF 0 **SHARES** SHARED VOTING POWER 6. **BENEFICIALLY** OWNED BY 0 **EACH** 7. SOLE DISPOSITIVE POWER **REPORTING** PERSON WITH 8. SHARED DISPOSITIVE POWER 0 9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING **PERSON** 0 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) 10. **EXCLUDES CERTAIN SHARES*** 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

0.00%

PN

12.

TYPE OF REPORTING PERSON*

7

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NAME OF REPORTING PERSONS
 I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

Deerfield International Master Fund, L.P.

- 2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) o (b) ý
- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION

British Virgin Islands

5. SOLE VOTING POWER

NUMBER OF
SHARES
BENEFICIALLY
6.

6. SHARED VOTING POWER

OWNED BY EACH

0

0

REPORTING PERSON WITH 7. SOLE DISPOSITIVE POWER

0

8.

0

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

SHARED DISPOSITIVE POWER

0

- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) $_{
 m O}$ EXCLUDES CERTAIN SHARES*
- 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

0.00%

12. TYPE OF REPORTING PERSON*

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NAME OF REPORTING PERSONS
 I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

Deerfield Mgmt III, L.P.

- 2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) o (b) \circ
- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5. SOLE VOTING POWER

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING

PERSON WITH

0

6. SHARED VOTING POWER

171,428 (2)

PORTING 7. SOLE DISPOSITIVE POWER

0

8. SHARED DISPOSITIVE POWER

171,428 (2)

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

171,428 (2)

- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) $_{
 m O}$ EXCLUDES CERTAIN SHARES*
- 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

0.46%

12. TYPE OF REPORTING PERSON*

⁽²⁾ Comprised of 171,428 shares of common stock held by Deerfield Private Design Fund III, L.P., of which Deerfield Mgmt III, L.P. is the general partner.

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NAME OF REPORTING PERSONS
 I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

Deerfield Private Design Fund III, L.P.

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* (a) o (b) \circ

- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5. SOLE VOTING POWER

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH 0

6. SHARED VOTING POWER

171,428

REPORTING PERSON WITH

7. SOLE DISPOSITIVE POWER

0

8. SHARED DISPOSITIVE POWER

171,428

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

171,428

- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) $_{
 m O}$ EXCLUDES CERTAIN SHARES*
- 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

0.46%

12. TYPE OF REPORTING PERSON*

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NAME OF REPORTING PERSONS
 I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

James E. Flynn

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) o (b) ý

- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION

United States

5. SOLE VOTING POWER

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH

6. SHARED VOTING POWER

171,428 (3)

0

REPORTING PERSON WITH 7. SOLE DISPOSITIVE POWER

8. SHARED DISPOSITIVE POWER

171,428 (3)

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

171,428 (3)

- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) $_{
 m O}$ EXCLUDES CERTAIN SHARES*
- 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

0.46%

12. TYPE OF REPORTING PERSON*

IN

⁽³⁾ Comprised of 171,428 shares of common stock held by Deerfield Private Design Fund III, L.P.

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Item 1(a).

Name of Issuer:

Global Blood Therapeutics, Inc.

Item

Address of Issuer's Principal Executive Offices:

400 East Jamie Court, Suite 101 South San Francisco, CA 94080

Item

Name of Person Filing:

James E. Flynn, Deerfield Mgmt, L.P., Deerfield Partners, L.P., Deerfield Mgmt III, L.P., Deerfield Special Situations Fund, L.P., Deerfield Management Company, L.P., Deerfield International Master Fund, L.P. and Deerfield Private Design Fund III, L.P.

Item

Address of Principal Business Office, or if None, Residence:

James E. Flynn, Deerfield Mgmt, L.P., Deerfield Mgmt III, L.P., Deerfield Partners, L.P., Deerfield Special Situations Fund, L.P., Deerfield Management Company, L.P., Deerfield International Master Fund, L.P., Deerfield Private Design Fund III, L.P., 780 Third Avenue, 37th Floor, New York, NY 10017

Item

2(c). Citizenship:

Deerfield Mgmt, L.P., Deerfield Management Company, L.P., Deerfield Partners, L.P. and Deerfield Special Situations Fund, L.P., Deerfield Mgmt III, L.P., Deerfield Private Design Fund III, L.P. - Delaware limited partnerships;

Deerfield International Master Fund, L.P. - British Virgin Islands limited partnership;

James E. Flynn – United States citizen

Item 2(d).

Title of Class of Securities:

Common Stock

Item 2(e).

CUSIP Number:

37890U108

- Item 3. If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:
- (a) o Broker or dealer registered under Section 15 of the Exchange Act.
- (b) o Bank as defined in Section 3(a)(6) of the Exchange Act.
- (c) o Insurance company as defined in Section 3(a)(19) of the Exchange Act.
- (d) o Investment company registered under Section 8 of the Investment Company Act.
- (e) o An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);

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- (f) o An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
- o A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G); (g)
- (h) o 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;
- o A non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J); (j)
- (k) o Group, in accordance with Rule 13d-1(b)(1)(ii)(K).

If filing as a non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J), please specify the type of institution:

Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

(a) Amount beneficially owned**:

> Deerfield Mgmt, L.P. - 0 shares Deerfield Management Company, L.P. - 171,428 shares Deerfield Mgmt III, L.P. - 171,428 shares Deerfield Partners, L.P. - 0 shares Deerfield Special Situations Fund, L.P. - 0 shares Deerfield International Master Fund, L.P. - 0 shares Deerfield Private Design Fund III, L.P. - 171,428 shares

James E. Flynn – 171,428 shares

(b) Percent of class**:

> Deerfield Mgmt, L.P. - 0.00% Deerfield Management Company, L.P. - 0.46% Deerfield Mgmt III, L.P. - 0.46% Deerfield Partners, L.P. - 0.00% Deerfield Special Situations Fund, L.P. - 0.00% Deerfield International Master Fund, L.P. - 0.00% Deerfield Private Design Fund III, L.P. - 0.46%

James E. Flynn - 0.46%

Number of shares as to which such person has**: (c)

(i) Sole power to vote or to direct the vote: All Reporting Persons - 0

(ii) Shared power to vote or to direct the vote: Deerfield Mgmt, L.P. - 0

Deerfield Management Company, L.P.

- 171,428

Deerfield Mgmt III, L.P. - 171,428 Deerfield Partners, L.P. - 0 Deerfield Special Situations Fund,

L.P. - 0

Deerfield International Master Fund,

L.P. - 0

Deerfield Private Design Fund III,

L.P. - 171,428

James E. Flynn - 171,428

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(iii) Sole power to dispose or to direct the disposition of:

All Reporting Persons - 0

(iv) Shared power to dispose or to direct the disposition of:

Deerfield Mgmt, L.P. - 0 Deerfield Management Company,

L.P. - 171,428

Deerfield Mgmt III, L.P. - 171,428

Deerfield Partners, L.P. - 0

Deerfield Special Situations Fund, L.P. - 0

Deerfield International Master Fund,

L.P. - 0

Deerfield Private Design Fund III,

L.P. - 171,428

James E. Flynn - 171,428

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 x.

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

If any other person is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, such securities, a statement to that effect should be included in response to this item and, if such interest relates to more than five percent of the class, such person should be identified. A listing of the shareholders of an investment company registered under the Investment Company Act of 1940 or the beneficiaries of employee benefit plan, pension fund or endowment fund is not required.

N/A

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

If a parent holding company or Control person has filed this schedule, pursuant to Rule 13d-1(b)(1)(ii)(G), so indicate under Item 3(g) and attach an exhibit stating the identity and the Item 3 classification of the relevant subsidiary. If a parent holding company or control person has filed this schedule pursuant to Rule 13d-1(c) or Rule 13d-1(d), attach an exhibit stating the identification of the relevant subsidiary.

N/A

^{**}See footnotes on cover pages which are incorporated by reference herein.

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

If a group has filed this schedule pursuant to ss.240.13d-1(b)(1)(ii)(J), so indicate under Item 3(j) and attach an exhibit stating the identity and Item 3 classification of each member of the group. If a group has filed this schedule pursuant to ss.240.13d-1(c) or ss.240.13d-1(d), attach an exhibit stating the identity of each member of the group.

See Exhibit B

Item 9. Notice of Dissolution of Group.

Notice of dissolution of a group may be furnished as an exhibit stating the date of the dissolution and that all further filings with respect to transactions in the security reported on will be filed, if required, by members of the group, in their individual capacity. See Item 5.

N/A

Item 10. Certifications.

"By signing below I certify that, to the best of my knowledge and belief, the securities referred to above 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, other than activities solely in connection with a nomination under §240.14a–11."

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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.

DEERFIELD MGMT, L.P.

By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD MANAGEMENT COMPANY, L.P.

By: Flynn Management LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD MGMT III. L.P.

By: J.E. Flynn Capital III, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD PARTNERS, L.P.

By: Deerfield Mgmt, L.P., General Partner By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD SPECIAL SITUATIONS FUND, L.P.

By: Deerfield Mgmt, L.P., General Partner

By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD INTERNATIONAL MASTER FUND, L.P.

By: Deerfield Mgmt, L.P., General Partner

By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler Jonathan Isler, Attorney-In-Fact

DEERFIELD PRIVATE DESIGN FUND III, L.P.

By: Deerfield Mgmt III, L.P., General Partner By: J.E. Flynn Capital III, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

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JAMES E. FLYNN

/s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

Date: February 14, 2017

Exhibit List

Exhibit A. Joint Filing Agreement.

Exhibit B. Item 8 Statement.

Exhibit C. Power of Attorney (1).

(1) Power of Attorney previously filed as Exhibit 24 to a Form 3 with regard to Editas Medicine, Inc. filed with the Securities and Exchange Commission on February 2, 2016 by Deerfield Mgmt III, L.P., Deerfield Management Company, L.P., Deerfield Healthcare Innovations Fund, L.P., Deerfield Mgmt HIF, L.P., Deerfield Private Design Fund III, L.P. and James E. Flynn.

Exhibit A

Joint Filing Agreement

The undersigned agree that this Schedule 13G, and all amendments thereto, relating to the Common Stock of Global Blood Therapeutics, Inc. shall be filed on behalf of the undersigned.

DEERFIELD MGMT, L.P.

By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD MANAGEMENT COMPANY, L.P.

By: Flynn Management LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD MGMT III, L.P.

By: J.E. Flynn Capital III, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD PARTNERS, L.P.

By: Deerfield Mgmt, L.P., General Partner By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD SPECIAL SITUATIONS FUND, L.P.

By: Deerfield Mgmt, L.P., General Partner By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD INTERNATIONAL MASTER FUND, L.P.

By: Deerfield Mgmt, L.P., General Partner By: J.E. Flynn Capital, LLC, General Partner

By: /s/ Jonathan Isler Jonathan Isler, Attorney-In-Fact

DEERFIELD PRIVATE DESIGN FUND III, L.P.

By: Deerfield Mgmt III, L.P., General Partner

By: J.E. Flynn Capital III, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

JAMES E. FLYNN

/s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

Exhibit B

Due to the relationships between them, the reporting persons hereunder may be deemed to constitute a "group" with one another for purposes of Section 13(d)(3) of the Securities Exchange Act of 1934.