Global Blood Therapeutics, Inc. Form SC 13G February 10, 2016

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934

(Amendment No.)*

Global Blood Therapeutics, Inc.

(Name of Issuer)

COMMON STOCK, \$0.001 PAR VALUE PER SHARE

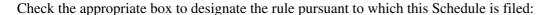
(Title of Class of Securities)

37890U108

(CUSIP Number)

December 31, 2015

(Date of Event Which Requires Filing of this Statement)



- " Rule 13d-1(b)
- "Rule 13d-1(c)
- x 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 the disclosures provided in a prior cover page.

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 (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).

CUSIP No. 37890U108 Page 2 of 15 Pages

- 1. NAMES OF REPORTING PERSONS
 - Third Rock Ventures II, L.P.
- CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 2.
 - (a) " (b) x
- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5. SOLE VOTING POWER

NUMBER OF

SHARES

6. SHARED VOTING POWER

BENEFICIALLY

OWNED BY

12,475,187

EACH

7. SOLE DISPOSITIVE POWER

REPORTING

PERSON

8. SHARED DISPOSITIVE POWER

WITH

12,475,187

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

12,475,187

- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
- 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9
 - 41.0% (1)
- 12. TYPE OF REPORTING PERSON

PN

(1) The percent of class was calculated based on 30,457,085 shares of common stock issued and outstanding as of November 5, 2015, as disclosed in the Issuer s Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 12, 2015.

CUSIP No. 37890U108 Page 3 of 15 Pages

- 1. NAMES OF REPORTING PERSONS
 - Third Rock Ventures GP II, L.P.
- 2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP
 - (a) " (b) x
- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5. SOLE VOTING POWER

NUMBER OF

SHARES

U

6. SHARED VOTING POWER

BENEFICIALLY

OWNED BY

12,475,187

EACH

7. SOLE DISPOSITIVE POWER

REPORTING

PERSON

0

8. SHARED DISPOSITIVE POWER

WITH

12,475,187

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

12,475,187

- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
- 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9
 - 41.0% (1)
- 12. TYPE OF REPORTING PERSON

PN

CUSIP No. 37890U108 Page 4 of 15 Pages

1. NAMES OF REPORTING PERSONS

TRV GP II, LLC

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

Delaware

5. SOLE VOTING POWER

NUMBER OF

SHARES

6. SHARED VOTING POWER

BENEFICIALLY

OWNED BY

12,475,187

EACH

7. SOLE DISPOSITIVE POWER

REPORTING

PERSON

8. SHARED DISPOSITIVE POWER

WITH

12,475,187

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

12,475,187

- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
- 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9
 - 41.0% (1)
- 12. TYPE OF REPORTING PERSON

00

CUSIP No. 37890U108 Page 5 of 15 Pages

- 1. NAMES OF REPORTING PERSONS
 - Third Rock Ventures III, L.P.
- CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 2.
 - (a) " (b) x
- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5. SOLE VOTING POWER

NUMBER OF

SHARES

6. SHARED VOTING POWER

BENEFICIALLY

OWNED BY

2,285,713

EACH

7. SOLE DISPOSITIVE POWER

REPORTING

PERSON

8. SHARED DISPOSITIVE POWER

WITH

2,285,713

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,285,713

- 10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
- 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

7.5% (1)

12. TYPE OF REPORTING PERSON

PN

CUSIP No. 37890U108 Page 6 of 15 Pages

- 1. NAMES OF REPORTING PERSONS
 - Third Rock Ventures GP III, L.P.
- 2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP
 - (a) " (b) x
- 3. SEC USE ONLY
- 4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5. SOLE VOTING POWER

NUMBER OF

SHARES

6. SHARED VOTING POWER

BENEFICIALLY

OWNED BY

2,285,713

EACH

7. SOLE DISPOSITIVE POWER

REPORTING

PERSON

0

8. SHARED DISPOSITIVE POWER

WITH

2,285,713