

Seres Therapeutics, Inc.  
Form SC 13G/A  
February 13, 2017

**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**  
**WASHINGTON, D.C. 20549**

**SCHEDULE 13G**  
**Under the Securities Exchange Act of 1934**  
**(Amendment No. 1)\***

**Seres Therapeutics, Inc.**

**(Name of Issuer)**

**Common Stock, \$0.001 par value per share**

**(Title of Class of Securities)**

**81750R102**

**(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:

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 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. 81750R102

**1** NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Flagship Ventures Fund 2007, L.P.

**2** CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a) (b)

**3** SEC USE ONLY

**4** CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

**5** SOLE VOTING POWER

NUMBER OF

SHARES **6** 0 SHARED VOTING POWER

BENEFICIALLY

OWNED BY **7** 0 SOLE DISPOSITIVE POWER  
EACH

REPORTING

PERSON **8** 0 SHARED DISPOSITIVE POWER

WITH:

**9** 0  
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

**10** 0  
CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

0%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

PN

CUSIP No. 81750R102

**1** NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Flagship Ventures 2007 General Partner LLC

**2** CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a) (b)

**3** SEC USE ONLY

**4** CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

**5** SOLE VOTING POWER

NUMBER OF 0  
**6** SHARED VOTING POWER  
SHARES

BENEFICIALLY 0  
**7** SOLE DISPOSITIVE POWER  
EACH

REPORTING  
WITH: 0  
**8** SHARED DISPOSITIVE POWER

0  
**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

0  
**10** CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

0%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

OO

CUSIP No. 81750R102

**1** NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Flagship Ventures Fund IV, L.P.  
**2** CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a) (b)

**3** SEC USE ONLY

**4** CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

**5** SOLE VOTING POWER

NUMBER OF

SHARES 0  
**6** SHARED VOTING POWER

BENEFICIALLY

OWNED BY 10,757,414  
EACH **7** SOLE DISPOSITIVE POWER

REPORTING

PERSON 0  
**8** SHARED DISPOSITIVE POWER

WITH:

10,757,414  
**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

10,757,414  
**10** CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

*26.7%*

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

PN



CUSIP No. 81750R102

**1** NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Flagship Ventures Fund IV-Rx, L.P.  
**2** CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a) (b)

**3** SEC USE ONLY

**4** CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

**5** SOLE VOTING POWER

NUMBER OF

SHARES 0  
**6** SHARED VOTING POWER

BENEFICIALLY

OWNED BY 1,925,462  
EACH **7** SOLE DISPOSITIVE POWER

REPORTING

PERSON 0  
**8** SHARED DISPOSITIVE POWER

WITH:

1,925,462  
**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

1,925,462  
**10** CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

4.8%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

PN

CUSIP No. 81750R102

**1** NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Flagship VenturesLabs IV, LLC  
**2** CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a) (b)

**3** SEC USE ONLY

**4** CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

**5** SOLE VOTING POWER

NUMBER OF

SHARES 0  
**6** SHARED VOTING POWER

BENEFICIALLY

OWNED BY 2,734,994  
EACH **7** SOLE DISPOSITIVE POWER

REPORTING

PERSON 0  
**8** SHARED DISPOSITIVE POWER

WITH:

2,734,994  
**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,734,994  
**10** CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

6.8%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

OO

CUSIP No. 81750R102

**1** NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

**2** Flagship Ventures Fund IV General Partner LLC  
CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a) (b)

**3** SEC USE ONLY

**4** CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

**5** SOLE VOTING POWER

NUMBER OF

SHARES 0  
**6** SHARED VOTING POWER

BENEFICIALLY

OWNED BY 12,682,876  
EACH **7** SOLE DISPOSITIVE POWER

REPORTING

PERSON 0  
**8** SHARED DISPOSITIVE POWER

WITH:

12,682,876  
**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

12,682,876  
**10** CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

31.4%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

OO

CUSIP No. 81750R102

**1** NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Noubar B. Afeyan, Ph.D.

**2** CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a) (b)

**3** SEC USE ONLY

**4** CITIZENSHIP OR PLACE OF ORGANIZATION

United States of America

**5** SOLE VOTING POWER

NUMBER OF

SHARES 0  
**6** SHARED VOTING POWER

BENEFICIALLY

OWNED BY 12,682,876  
EACH **7** SOLE DISPOSITIVE POWER

REPORTING

PERSON 0  
**8** SHARED DISPOSITIVE POWER

WITH:

12,682,876  
**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

12,682,876  
**10** CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

31.4%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IN



CUSIP No. 81750R102

**1** NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Edwin M. Kania, Jr.

**2** CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

(a) (b)

**3** SEC USE ONLY

**4** CITIZENSHIP OR PLACE OF ORGANIZATION

United States of America

**5** SOLE VOTING POWER

NUMBER OF

SHARES 0  
**6** SHARED VOTING POWER

BENEFICIALLY

OWNED BY 12,682,876  
EACH **7** SOLE DISPOSITIVE POWER

REPORTING

PERSON 0  
**8** SHARED DISPOSITIVE POWER

WITH:

12,682,876  
**9** AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

12,682,876  
**10** CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)

**11** PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

31.4%

**12** TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IN

**Item 1(a). Name of Issuer:**

Seres Therapeutics, Inc. (the Issuer )

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

200 Sidney Street, 4th Floor, Cambridge, Massachusetts 02139

**Item 2(a). Names of Persons Filing:**

The names of the persons filing this report (collectively, the Reporting Persons ) are:

Flagship Ventures Fund 2007, L.P. ( Fund 2007 )

Flagship Ventures 2007 General Partner LLC ( Fund 2007 GP )

Flagship Ventures Fund IV, L.P. ( Fund IV )

Flagship Ventures Fund IV-Rx, L.P. ( Fund IV-Rx )

Flagship VentureLabs IV, LLC ( VentureLabs IV )

Flagship Ventures Fund IV General Partner LLC ( Fund IV GP )

Noubar B. Afeyan, Ph.D. ( Mr. Afeyan )

Edwin M. Kania, Jr. ( Mr. Kania )

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

The address of the principal business office of each of the Reporting Persons is:

c/o Flagship Pioneering Inc.

55 Cambridge Parkway, Suite 800E

Cambridge, Massachusetts 02142

**Item 2(c). Citizenship:**

Fund 2007	Delaware
Fund 2007 GP	Delaware
Fund IV	Delaware

Fund IV-Rx	Delaware
VentureLabs IV	Delaware
Fund IV GP	Delaware
Mr. Afeyan	United States of America
Mr. Kania	United States of America

**Item 2(d). Title of Class of Securities:**

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

**Item 2(e). CUSIP Number:**

81750R102

**Item 3. If this statement is filed pursuant to §§ 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:**

Not applicable.

**Item 4. Ownership.**

The information required by this item with respect to each Reporting Person is set forth in Rows 5 through 9 and 11 of the cover page to this Schedule 13G. The ownership percentages reported are based on 40,355,753 shares of outstanding Common Stock as of November 7, 2016, as reported in the Issuer's Form 10-Q filed on November 10, 2016.

As the general partner of Fund 2007, Fund 2007 GP may be deemed to beneficially own shares of Common Stock directly held by Fund 2007. As the manager of VentureLabs IV, Fund IV may be deemed to beneficially own shares of Common Stock directly held by VentureLabs IV. As the general partner of Fund IV and FundIV-Rx, Fund IV GP may be deemed to beneficially own shares of Common Stock beneficially owned by Fund IV and directly held by Fund IV-Rx, respectively. Messrs. Afeyan and Kania, as Managers of Fund 2007 GP and Fund IV GP, may be deemed to beneficially own shares of Common Stock beneficially owned by Fund 2007 GP and Fund IV GP, respectively.

**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 each of Fund 2007 and Fund 2007 GP have 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.**

Not applicable.

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

Not applicable.

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

Not applicable.

**Item 9. Notice of Dissolution of Group.**

Not applicable.

**Item 10. Certification.**

Not applicable.

**Material Filed as Exhibits.**

Exhibit 1 Agreement regarding filing of joint Schedule 13G.

SIGNATURE

After reasonable inquiry and to the best of its knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Date: February 13, 2017

FLAGSHIP VENTURES FUND 2007, L.P.

Flagship Ventures 2007 General Partner  
By: LLC  
General Partner

By: /s/ Noubar B. Afeyan  
Noubar B. Afeyan, Ph.D.  
Manager

FLAGSHIP VENTURES 2007 GENERAL  
PARTNER LLC

By: /s/ Noubar B. Afeyan  
Noubar B. Afeyan, Ph.D.  
Manager

FLAGSHIP VENTURES FUND IV, L.P.

By: Flagship Ventures Fund IV General Partner LLC  
General Partner

By: /s/ Noubar B. Afeyan  
Noubar B. Afeyan, Ph.D.  
Manager

FLAGSHIP VENTURES FUND IV-RX, L.P.

By: Flagship Ventures Fund IV General Partner LLC  
General Partner

By: /s/ Noubar B. Afeyan  
Noubar B. Afeyan, Ph.D.  
Manager

FLAGSHIP VENTURELABS IV, LLC

By: Flagship Ventures Fund IV, L.P.  
Manager

By: Flagship Ventures Fund IV General Partner LLC  
General Partner

By: /s/ Noubar B. Afeyan  
Noubar B. Afeyan, Ph.D.  
Manager

FLAGSHIP VENTURES FUND IV  
GENERAL PARTNER LLC

By: /s/ Noubar B. Afeyan  
Noubar B. Afeyan, Ph.D.  
Manager

/s/ NOUBAR B. AFEYAN  
NOUBAR B. AFEYAN, PH.D.

/s/ EDWIN M. KANIA, JR.  
EDWIN M. KANIA, JR.