

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL	
OMB Number:	3235-0287
Estimated average burden hours per response:	0.5

1. Name and Address of Reporting Person* <u>Flagship Ventures Fund IV, L.P.</u> (Last) (First) (Middle) <u>1 MEMORIAL DRIVE, 7TH FLOOR</u> (Street) <u>CAMBRIDGE MA 02142</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>Eleven Biotherapeutics, Inc. [EBIO]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) <u>09/06/2016</u>	
		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	09/06/2016		S		20,221	D	\$4.63 ⁽⁴⁾	1,886,787	D ⁽¹⁾	
Common Stock	09/06/2016		S		12,441	D	\$4.63 ⁽⁴⁾	1,160,708	D ⁽²⁾	
Common Stock	09/06/2016		S		3,108	D	\$4.63 ⁽⁴⁾	290,160	D ⁽³⁾	
Common Stock	09/07/2016		S		52,985	D	\$4.51 ⁽⁵⁾	1,833,802	D ⁽¹⁾	
Common Stock	09/07/2016		S		32,597	D	\$4.51 ⁽⁵⁾	1,128,111	D ⁽²⁾	
Common Stock	09/07/2016		S		8,145	D	\$4.51 ⁽⁵⁾	282,015	D ⁽³⁾	

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
						Date Exercisable	Expiration Date					

1. Name and Address of Reporting Person*
Flagship Ventures Fund IV, L.P.
 (Last) (First) (Middle)
1 MEMORIAL DRIVE, 7TH FLOOR
 (Street)
CAMBRIDGE MA 02142
 (City) (State) (Zip)

1. Name and Address of Reporting Person*
Flagship Ventures Fund 2007, L.P.
 (Last) (First) (Middle)
1 MEMORIAL DRIVE, 7TH FLOOR
 (Street)
CAMBRIDGE MA 02142
 (City) (State) (Zip)

1. Name and Address of Reporting Person*

Flagship Ventures Fund IV-Rx, L.P.

(Last) (First) (Middle)

1 MEMORIAL DRIVE, 7TH FLOOR

(Street)

CAMBRIDGE MA 02142

(City)

(State)

(Zip)

1. Name and Address of Reporting Person*

Flagship Ventures 2007 General Partner LLC

(Last) (First) (Middle)

1 MEMORIAL DRIVE, 7TH FLOOR

(Street)

CAMBRIDGE MA 02142

(City)

(State)

(Zip)

1. Name and Address of Reporting Person*

Flagship Ventures Fund IV General Partner LLC

(Last) (First) (Middle)

1 MEMORIAL DRIVE, 7TH FLOOR

(Street)

CAMBRIDGE MA 02142

(City)

(State)

(Zip)

1. Name and Address of Reporting Person*

AFEYAN NOUBAR

(Last) (First) (Middle)

1 MEMORIAL DRIVE, 7TH FLOOR

(Street)

CAMBRIDGE MA 02142

(City)

(State)

(Zip)

1. Name and Address of Reporting Person*

KANIA EDWIN M JR

(Last) (First) (Middle)

1 MEMORIAL DRIVE, 7TH FLOOR

(Street)

CAMBRIDGE MA 02142

(City)

(State)

(Zip)

Explanation of Responses:

1. Held by Flagship Ventures Fund 2007, L.P. ("Flagship 2007"). Flagship Ventures 2007 General Partner LLC ("Flagship 2007 LLC") is the general partner of Flagship 2007. Noubar B. Afeyan, Ph.D. and Edwin M. Kania, Jr. are the managers of Flagship 2007 LLC. Flagship 2007 LLC and each of these individuals may be deemed to share voting and investment power with respect to all shares held by Flagship 2007. Each of the filing persons, other than Flagship 2007, disclaims beneficial ownership of such shares except to the extent of his or its pecuniary interest therein.

2. Held by Flagship Ventures Fund IV, L.P. ("Flagship IV"). Flagship Ventures Fund IV General Partner LLC ("Flagship IV LLC") is the general partner of Flagship IV. Noubar B. Afeyan, Ph.D. and Edwin M. Kania, Jr. are the managers of Flagship IV LLC. Flagship IV LLC and each of these individuals may be deemed to share voting and investment power with respect to all shares held by Flagship IV. Each of the filing persons, other than Flagship IV, disclaims beneficial ownership of such shares except to the extent of his or its pecuniary interest therein.

3. Held by Flagship Ventures Fund IV-Rx, L.P. ("Flagship IV-Rx"). Flagship IV LLC is the general partner of Flagship IV Rx. Noubar B. Afeyan, Ph.D. and Edwin M. Kania, Jr. are the managers of Flagship IV LLC. Flagship IV LLC and each of these individuals may be deemed to share voting and investment power with respect to all shares held by Flagship IV-Rx. Each of the filing persons, other than Flagship IV-Rx, disclaims beneficial ownership of such shares except to the extent of his or its pecuniary interest therein.

4. The transactions were executed in multiple trades at prices ranging from \$4.60 to \$4.77. The price above reflects the weighted average sales price. Detailed information regarding the number of shares sold at each separate price will be provided upon request by the Commission staff, the Issuer or a security holder of the Issuer.

5. The transactions were executed in multiple trades at prices ranging from \$4.50 to \$4.56. The price above reflects the weighted average sales price. Detailed information regarding the number of shares sold at each separate price will be provided upon request by the Commission staff, the Issuer or a security holder of the Issuer.

Remarks:

FLAGSHIP VENTURES
FUND IV, L.P., By: Flagship
Ventures Fund IV General

09/08/2016

Partner LLC, By: /s/ Noubar B. Afeyan, Ph.D. Title: Manager
FLAGSHIP VENTURES
FUND 2007, L.P., By: Flagship Ventures 2007 General Partner LLC, By: /s/ Noubar B. Afeyan, Ph.D., Title: Manager 09/08/2016
FLAGSHIP VENTURES
FUND IV-RX, L.P., By: Flagship Ventures Fund IV General Partner LLC, By: /s/ Noubar B. Afeyan, Ph.D., Title: Manager 09/08/2016
FLAGSHIP VENTURES 2007 GENERAL PARTNER LLC, By: /s/ Noubar B. Afeyan, Ph.D., Title: Manager 09/08/2016
FLAGSHIP VENTURES FUND IV GENERAL PARTNER LLC, By: /s/ Noubar B. Afeyan, Ph.D., Title: Manager 09/08/2016
/s/ Noubar B. Afeyan, Ph.D. 09/08/2016
/s/ Edwin M. Kania, Jr. 09/08/2016
 ** Signature of Reporting Person Date

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

* If the form is filed by more than one reporting person, see Instruction 4 (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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.