UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

SCHED		13C
SCHED	ULL	130

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

Editas Medicine, Inc.

(Name of Issuer)

Common Stock, \$0.0001 par value per share (Title of Class of Securities)

28106W103 (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).

CUSI	P No. 2	2810	06W103	
1			REPORTING PERSONS	
	I.R.S. ID	EN	TIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	Elegahi	1	Vanturas Fund IV. I. D	
2			Ventures Fund IV, L.P. E APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)	
2	(a) □		e AFFROFRIATE BOX IF A MEMBER OF A GROUF (SEE INSTRUCTIONS) o) □	
3	SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
	Delawa			
		5	SOLE VOTING POWER	
NUN	IBER OF		0	
SHARES		6	SHARED VOTING POWER	
BENEFICIALLY 2.764.256			2,764,256	
		SOLE DISPOSITIVE POWER		
	REPORTING REPORTING			
PERSON 0				
WITH: 8 SHARED DISPOSITIVE POWER				
	2,764,256			
9	9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	27(125)			
-10	2,764,2			
10	CHECK	BO	X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) $\ \Box$	
11	11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9			
11	FERCENT OF CLASS REFRESENTED BY AMOUNT IN KOW 9			

12

PN

CUSII	P No. 2	2810	6W103	
1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)			
2			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	CITIZEN	TOTA	ID OD DI A OF OF OD ODOLANIZATION	
4	CITIZEN	ISH	IP OR PLACE OF ORGANIZATION	
	Delawa	re		
		5	SOLE VOTING POWER	
NUM	IBER OF		0	
SHARES		6	SHARED VOTING POWER	
	FICIALLY		691,060	
			SOLE DISPOSITIVE POWER	
1	REPORTING SOLE DISTOSITIVE TOWER			
	PERSON 0			
WITH: 8 SHARED DISPOSITIVE POWER				
	691,060			
9	9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	691,060			
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			

12

PN

CUSII	P No. 2	2810	6W103	
1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)			
	1.K.S. 1D	LIN	HITICATION NOS. OF ABOVE LEKSONS (ENTITIES ONLI)	
			entures Fund IV 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			
	Delawa	***		
	Delawa	5	SOLE VOTING POWER	
NUM	IBER OF		0	
	IARES FICIALLY	6	SHARED VOTING POWER	
	FICIALLY NED BY		3,455,316	
	EACH 7 SOLE DISPOSITIVE POWER REPORTING			
PE	PERSON 0			
WITH: 8 SHARED DISPOSITIVE POWER				
			3,455,316	
9				
	3,455,3	16		
10			X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)	
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9			

12

OO

CUSI	P No.	2810	6W103
1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)		
			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	Sta	tes of America
SOLE VOTING POWER NUMBER OF 0			
SHARES BENEFICIALLY		6	SHARED VOTING POWER
OW	NED BY		3,455,316
EACH 7 SOLE DISPOSITIVE POWER REPORTING		SOLE DISPOSITIVE POWER	
	PERSON 0		
v	VIIII:	8	SHARED DISPOSITIVE POWER
			3,455,316
9	AGGRE	GAT	E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
	3,455,3	16	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) □		
11	PERCEN	NT C	OF CLASS REPRESENTED BY AMOUNT IN ROW 9
	9 4%		

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CUSII	P No.	2810	6W103
1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)		
2			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		
NUMBER OF 0			0
SHARES BENEFICIALLY OWNED BY 6 SHARED VOTING POWER 3,455,316			
EACH 7 SOLE DISPOSITIVE POWER REPORTING		SOLE DISPOSITIVE POWER	
PERSON 0 WITH: 0 CHARGE DISPOSITIVE POWER		0 SHARED DISPOSITIVE POWER	
		8	3,455,316
9	AGGRE	GAT	E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
	3,455,3	16	
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) □		
11	PERCEN	NT C	OF CLASS REPRESENTED BY AMOUNT IN ROW 9
	9.4%		

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IN

Item 1(a). Name of Issuer:

Editas Medicine, Inc. (the "Issuer")

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

11 Hurley Street, Cambridge, Massachusetts 02141

Item 2(a). Names of Persons Filing:

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

Flagship Ventures Fund IV, L.P. ("Fund IV")
Flagship Ventures Fund IV-Rx, L.P. ("Fund IV-Rx")
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). <u>Citizenship</u>:

Fund IV Delaware
Fund IV-Rx Delaware
Fund IV GP Delaware

Mr. Afeyan United States of America Mr. Kania United States of America

Item 2(d). <u>Title of Class of Securities</u>:

Common Stock, \$0.0001 par value per share ("Common Stock").

Item 2(e). <u>CUSIP Number</u>:

28106W103

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 36,655,936 shares of outstanding Common Stock as of November 1, 2016, as reported in the Issuer's Form 10-Q filed on November 9, 2016.

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

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 Persons have ceased to be the beneficial owner of more than five percent of the class of securities, check the following \Box .

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

Not applicable.

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

Not applicable.

Item 8. <u>Identification and Classification of Members of the Group.</u>

Not applicable.

Item 9. <u>Notice of Dissolution of Group.</u>

Not applicable.

Item 10. <u>Certification</u>.

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 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 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.

AGREEMENT

The persons below hereby agree that the Schedule 13G to which this agreement is attached as an exhibit, as well as all future amendments to such Schedule 13G, shall be filed on behalf of each of them. This agreement is intended to satisfy the requirements of Rule 13d-1(k)(1)(iii) under the Securities Exchange Act of 1934.

Date: February 13, 2017

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 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.