FORM 4

# **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL						
OMB Number: 3235-028						
Estimated average burden						
hours per response: 0.5						

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

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

		f Reporting Person					nd Ticke			ding Symbol 1				Relationsh		orting P	Person(s	to Issuer
<u>Flynn</u>	<u>James E</u>							_		onth/Day/Ye			┨`	Dire	ctor		X 10	% Owner
(Last)	(Fir	st) (M	/liddle)	02/12			Halls	acuc	on (w	опш/Дау/те	ar)			belo	er (give t w) ible Me		A be	her (specify low)
/80 1711	XD AVENC	E, 3/In FLOOR		1 15 1									+					
(Street) NEW YO			0017	4. If A	mend	ment,	Date o	t Or	nginai	l Filed (Mont	n/Day/	Year)		ne) Form	n filed by	One Re	porting	eck Applicable Person Reporting
(City)	(St	ate) (Z	Zip)															
		Tabl	e I - Non-Deriv	ative S	Secu	rities	Acq	uir		-				ally Own	ed			
1. Title of S	Security (Ins	tr. 3)	2. Transaction Date (Month/Day/Year)	2A. De Execut if any (Month	tion D	ate,	3. Trans Code 8)		on	4. Securities Disposed Of 5)				5. Amour Securitie Beneficia Owned	s Ily	6. Own Form: (D) or Indirec	Direct	7. Nature of Indirect Beneficial Ownership
							Code		v	Amount	(A) or (D)	Price		Reported Transacti (Instr. 3 a	on(s)	(Instr.	4)	(Instr. 4)
Common	Stock		02/12/2016				P			22,296	A	\$6.2	466 <sup>(1)</sup>	441,	043	1		Through Deerfield Partners, L.P. <sup>(2)(3)</sup>
Common	Stock		02/12/2016				Р			28,377	A	\$6.2	466 <sup>(1)</sup>	561,	328	1		Through Deerfield International Master Fund, L.P. (2)(3)
Common	Stock		02/12/2016				P			13,872	A	\$6.2	466 <sup>(1)</sup>	2,053	,232	1	]	Through Deerfield Special Situations Fund, L.P.(2)(3)
		Та	ble II - Derivat (e.g., pu							sposed o				y Owned	l			
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	4. Transac Code (II 8)	tion nstr.	5. Nur of Deriving Secur Acquir (A) or Dispo of (D) (Instr., and 5	mber ative rities ired osed . 3, 4	6. D Exp (Mo	Pate E piration onth/D	xercisable ai n Date lay/Year)	on 7. Ai Se Ui Do	Title an mount of curities of curities of curity (and 4)	d f g nstr.	8. Price of Derivative Security (Instr. 5)	9. Numi derivati Securiti Benefic Owned Followi Reporte Transac (Instr. 4	ve ies ially ng ed ction(s)	10. Owners Form: Direct ( or Indir (I) (Insti	Beneficial Ownership rect (Instr. 4)
				Code	V	(A)	(D)	Exe	rcisal	ble Date	Ti	tle SI	ares					

1. Name and Address	· -						
Flynn James I							
(Last)	(First)	(Middle)					
780 THIRD AVEN	TUE, 37TH FLOOR						
(Street)	<b>N</b> B7	10017					
NEW YORK	NY	10017					
(City)	(State)	(Zip)					
1. Name and Address of Reporting Person*  Deerfield Mgmt L.P.							
(Last)	(First)	(Middle)					
780 THIRD AVEN 37TH FLOOR	IUE						
(Street)							
NEW YORK	NY	10017					
(City)	(State)	(Zip)					
1. Name and Address  DEERFIELD	of Reporting Person* PARTNERS, LF	2					
(Last)	(First)	(Middle)					
780 THIRD AVEN 37TH FLOOR	IUE						
(Street) NEW YORK	NY	10017					
(City)	(State)	(Zip)					
Name and Address of Reporting Person*     DEERFIELD MANAGEMENT CO							
(Last) 780 THIRD AVEN	(First) JUE, 37TH FLOOR	(Middle)					
(Street) NEW YORK	NY	10017					
(City)	(State)	(Zip)					
Name and Address of Reporting Person*     Deerfield International Master Fund, L.P.							
(Last)	(First)	(Middle)					
780 THIRD AVEN	IUE, 37TH FLOOR						
(Street) NEW YORK	NY	10017					
(City)	(State)	(Zip)					

1. Name and Address of Reporting Person*  Deerfield Special Situations Fund, L.P.						
(Last) (First) (Middle) 780 3RD AVENUE 37TH FLOOR						
(Street) NEW YORK	NY	10017				
(City)	(State)	(Zip)				

#### **Explanation of Responses:**

- 1. The price reported in Column 4 is a weighted average price. The shares were purchased in multiple transactions at prices ranging from \$6.18 to \$6.25, inclusive. The reporting persons undertake to provide to the Issuer, any security holder of the Issuer or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares purchased at each separate price within the ranges set forth in this footnote (1) of this Form 4.
- 2. This Form 4 is being filed by the undersigned as well as the entities listed on the Joint Filer Information Statement attached as an exhibit hereto (the "Reporting Persons"). Deerfield Mgmt, L.P. is the general partner of Deerfield Special Situations Fund, L.P., Deerfield Partners, L.P. and Deerfield International Master Fund, L.P. (collectively, the "Funds"). Deerfield Management Company, L.P. is the investment manager of the Funds. James E. Flynn is the sole member of the general partner of each of Deerfield Mgmt, L.P. and Deerfield Management Company, L.P.
- 3. In accordance with Instruction 4 (b)(iv) to Form 4, the entire amount of the Issuer's securities held by the Funds is reported herein. For purposes of Section 16 of the Securities Exchange Act of 1934, as amended, each Reporting Person disclaims beneficial ownership of any such securities, except to the extent of his/its indirect pecuniary interest therein, if any, and this report shall not be deemed an admission that such Reporting Person is the beneficial owner of such securities for purposes of Section 16 or otherwise.

#### Remarks

Jonathan Isler, Attorney-in-Fact: Power of Attorney, which is hereby incorporated by reference to 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, L.P., Deerfield Mgmt III, L.P., Deerfield Management Company, L.P., Deerfield Special Situations Fund, L.P., Deerfield Private Design Fund, L.P., Deerfield Private Design Fund, L.P., Deerfield Private Design Fund II, L.P., Deerfield Private Design Fund II, L.P., Deerfield International II, L.P., Deerfield International Master Fund, L.P., Deerfield Healthcare Innovations Fund, L.P., Deerfield Mgmt HIF, L.P., Breaking Stick Holdings, LLC, Deerfield Private Design Fund III, L.P., Deerfield Mgmt HIF, L.P., Breaking Stick Holdings, LLC, Deerfield Private Design Fund III, L.P., Deerfield Mgmt HIF, L.P., Breaking Stick Holdings, LLC, Deerfield Private Design Fund III, L.P., Deerfield Mgmt HIF, L.P., Deerfield Mgmt HIF, L.P., Breaking Stick Holdings, LLC, Deerfield Private Design Fund III, L.P., Deerfield Mgmt HIF, L.P., Deerfield Mg

/s/ Jonathan Isler 02/17/2016

\*\* Signature of Reporting Person Date

Date

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

- $^{\star}$  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.

### Joint Filer Information

Names: Deerfield Mgmt, L.P., Deerfield Management Company, L.P.,

Deerfield Special Situations Fund, L.P.,

Deerfield Partners, L.P., Deerfield International Master Fund, L.P.

Address: 780 Third Avenue, 37th Floor

New York, NY 10017

Designated Filer: James E. Flynn

Issuer and Ticker Symbol: Zafgen, Inc. [ZFGN]

Date of Earliest Transaction

Required to be Reported: February 12, 2016

The undersigned, Deerfield Mgmt, L.P., Deerfield Management Company, L.P., Deerfield Special Situations Fund, L.P., Deerfield Partners, L.P. and Deerfield International Master Fund, L.P., are jointly filing the attached Statement of Changes in Beneficial Ownership on Form 4 with James E. Flynn with respect to the beneficial ownership of securities of Zafgen, Inc.

Signatures:

DEERFIELD MGMT, L.P. DEERFIELD PARTNERS, L.P.

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

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

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

Jonathan Isler, Attorney-In-Fact

DEERFIELD MANAGEMENT COMPANY, L.P. DEERFIELD INTERNATIONAL MASTER FUND, L.P.

By: Flynn Management LLC, General Partner By: Deerfield Mgmt, L.P., General Partner

By: <u>/s/ Jonathan Isler</u>
By: J.E. Flynn Capital, LLC, General Partner

By: <u>/s/ Jonathan Isler</u>

Jonathan Isler, Attorney-In-Fact

DEERFIELD SPECIAL SITUATIONS FUND, L.P.

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

Jonathan Isler, Attorney-In-Fact

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

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact