FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPRO	VAL
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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

1. Name and Address Flynn Jame	ess of Reporting Pers <u>S</u>	son [*]	2. Issuer Name au ZAFGEN, II				ı			Relationship of Re heck all applicable) Director		s) to Issuer 0% Owner
(Last) 780 THIRD AV	(First) ENUE, 37TH FLC	(Middle)	3. Date of Earliest 02/09/2016	t Transac	tion (I	Month/Day/Y	ear)			Officer (give below)	title _Y C	Other (specify elow)
(Street) NEW YORK (City)	NY (State)	10017 (Zip)	4. If Amendment,	Date of (Origin	al Filed (Mon	th/Day/	Year)	6. Lir	Form filed by	Group Filing (Ch One Reporting More than One	Person
	Ta	able I - Non-Deriva	ative Securities	s Acqui	ired,	, Disposed	d of, c	r Benefi	cia	Illy Owned		
1. Title of Security	/ (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transac Code (II		4. Securitie Disposed C 5)			d	5. Amount of Securities Beneficially Owned Following	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		Reported Transaction(s) (Instr. 3 and 4)		
Common Stock		02/09/2016		P		39,353	A	\$5.7291	1 ⁽¹⁾	365,698	I	Through Deerfield Partners, L.P. ⁽⁴⁾⁽⁵⁾
Common Stock		02/09/2016		Р		50,086	A	\$5.729	1 ⁽¹⁾	465,435	I	Through Deerfield International Master Fund, L.P. ⁽⁴⁾⁽⁵⁾
Common Stock		02/09/2016		P		24,484	A	\$5.729	1 ⁽¹⁾	2,006,355	I	Through Deerfield Special Situations Fund, L.P. ⁽⁴⁾⁽⁵⁾
Common Stock		02/10/2016		P		52,239	A	\$6.2323	3 ⁽²⁾	417,937	I	Through Deerfield Partners, L.P. ⁽⁴⁾⁽⁵⁾
Common Stock		02/10/2016		P		66,486	A	\$6.2323	3 ⁽²⁾	531,921	I	Through Deerfield International Master Fund, L.P. ⁽⁴⁾⁽⁵⁾
Common Stock		02/10/2016		P		32,501	A	\$6.2323	3 ⁽²⁾	2,038,856	I	Through Deerfield Special Situations Fund, L.P. ⁽⁴⁾⁽⁵⁾
Common Stock		02/11/2016		P		810	A	\$6.1884	4 ⁽³⁾	418,747	I	Through Deerfield Partners, L.P. ⁽⁴⁾⁽⁵⁾

		Table	e I - Non-Deriv	ative Se	curities	s Acqu	uired,	Dispose	d of,	or B	eneficia	ally Own	ed				
1. Title of Security (Instr. 3)		tr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acqu Disposed Of (D) (Ir 5)				5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
						Code	v	Amount	(A) or (D)	Pr	ice	Reported Transacti (Instr. 3 a	on(s)	(Instr. 4)		(
Common	Stock		02/11/2016			P		1,030	A	\$6	5.1884 ⁽³⁾	532,9	951	I	De Int M Fu	erfield ternational aster nd, P.(4)(5)	
Common	Stock		02/11/2016			P		504	A	\$6	5.1884 ⁽³⁾	2,039	,360	I	De Sp Sit	erfield ecial tuations nd, P.(4)(5)	
		Та	ble II - Derivati									y Owned	1				
Title of erivative ecurity nstr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any	4. Transactio	ransaction of Expir ode (Instr. Derivative (Mon		6. Date l Expirati	te Exercisable and attion Date th/Day/Year) To Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)			and at of ties ying tive ty (Instr.	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e Own s For ally Dire or I g (I) (Ownership Form: Direct (D) or Indirect (I) (Instr.	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V (A)		Date Exercisa	Expira		itle	Amount or Number of Shares						
	nd Address of James E	f Reporting Person [*]															
		(First) JE, 37TH FLOOF	(Middle)														
(Last) 780 THI (Street) NEW YO	DRK	NY	10017														

Deerfield Mgmt L.P.

780 THIRD AVENUE 37TH FLOOR

(Last)

(Street)
NEW YORK

(City)

(First)

NY

(State)

(Middle)

10017

(Zip)

1. Name and Addre	ss of Reporting Perso	 n*	
	MANAGEME		
(Last)	(First)	(Middle)	
780 THIRD AVI	ENUE, 37TH FLOC	DR .	
(Street) NEW YORK	NY	10017	
(City)	(State)	(Zip)	
	ss of Reporting Perso ecial Situation		
(Last) 780 3RD AVEN 37TH FLOOR	(First) UE	(Middle)	
(Street) NEW YORK	NY	10017	
(City)	(State)	(Zip)	
	ss of Reporting Perso		
(Last) 780 THIRD AVE 37TH FLOOR	(First) ENUE	(Middle)	
(Street) NEW YORK	NY	10017	
(City)	(State)	(Zip)	
	ss of Reporting Perso ernational Mas		
(Last) 780 THIRD AVI	(First) ENUE, 37TH FLOC	(Middle)	
(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 \$5.515 to \$5.85, 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 footnotes (1), (2) and (3) of this Form 4.
- 2. The price reported in Column 4 is a weighted average price. The shares were purchased in multiple transactions at prices ranging from \$6.08 to \$6.25, inclusive.
- 3. The price reported in Column 4 is a weighted average price. The shares were purchased in multiple transactions at prices ranging from \$6.00 to \$6.25, inclusive.
- 4. 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.
- 5. 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, Attomey-in-Fact: Power of Attomey, 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 International, L.P., Deerfield PDI Financing, L.P., Deerfield PDI Financing II, L.P., Deerfield Private Design Fund II, L.P., Deerfield Private Design Fund 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., and James E. Flynn.

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.

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 Event Requiring Statement: February 9, 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.

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

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD MANAGEMENT COMPANY, L.P.

By: Flynn Management LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD SPECIAL SITUATIONS FUND, L.P.

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

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

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD PARTNERS, L.P.

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

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

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

Jonathan Isler, Attorney-In-Fact

DEERFIELD INTERNATIONAL MASTER FUND, L.P.

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

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

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

Jonathan Isler, Attorney-In-Fact