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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

OMB APPROVAL										
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1. Nume and Address of Reporting reison		n*	2. Issuer Name and Ticker or Trading Symbol ZAFGEN, INC. [ZFGN]		tionship of Reporting I all applicable) Director	Persor	n(s) to Issuer 10% Owner
	(First) OCK VENTURES,		3. Date of Earliest Transaction (Month/Day/Year) 05/15/2015		Officer (give title below)		Other (specify below)
29 NEWBURY (Street) BOSTON (City)	MA (State)	02116 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group F Form filed by One F Form filed by More Person	eporti	ing Person

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

Table 1 - Non-Derivative Securities Acquired, Disposed of, or Denencially Owned											
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr.		4. Securities A Disposed Of (5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code V Amount (A) or Price		Price	Transaction(s) (Instr. 3 and 4)		(1150.4)			
Common Stock	05/15/2015		J ⁽¹⁾		1,000,000	D	\$0	3,202,045	Ι	See footnote ⁽²⁾	
Common Stock	05/15/2015		J ⁽³⁾		443,935	A	\$0	443,935	Ι	See footnote ⁽⁴⁾	
Common Stock	05/15/2015		J ⁽⁵⁾		443,935	D	\$0	0	I	See footnote ⁽⁴⁾	
Common Stock	05/15/2015		J ⁽⁶⁾		92,041	A	\$ <mark>0</mark>	172,138	D		

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

	(3-,,,,,														
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. Transa Code (8)		of E		6. Date Exerc Expiration Da (Month/Day/Y	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)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

1. Distribution of shares in kind by Third Rock Ventures, L.P. ("TRV") on a pro rata basis to its partners.

2. The shares are directly held by TRV. The general partner of TRV is Third Rock Ventures GP, L.P. ("TRV GP"). The general partner of TRV GP is TRV GP, LLC ("TRV GP LLC") and the Reporting Person is a Manager of TRV GP LLC, as such, each of TRV GP and TRV GP LLC and the Reporting Person exercises shared voting and investment power over the shares held of record by TRV. The Reporting Person disclaims beneficial ownership of the shares except to the extent of his pecuniary interest therein, if any.

3. TRV GP received shares distributed in kind by TRV on a pro rata basis to its partners.

4. The shares are directly held by TRV GP. As such, each of TRV GP LLC and the Reporting Person exercises shared voting and investment power over the shares held of record by TRV GP. The Reporting Person disclaims beneficial ownership of the shares except to the extent of his pecuniary interest therein, if any.

5. Distribution of shares in kind by TRV GP on a pro rata basis to its partners.

6. The Reporting Person received shares distributed in kind by TRV GP on a pro rata basis to its partners.

Remarks:

<u>/s/ Kevin Gillis by power of</u> <u>attorney for Kevin Starr</u>

05/15/2015

** 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.