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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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STARR KEVIN P Z (Last) (First) (Middle) C/O THIRD ROCK VENTURES, LLC 29 NEWBURY STREET, 3RD FLOOR		Person [*]	2. Issuer Name and Ticker or Trading Symbol <u>ZAFGEN, INC.</u> [ZFGN]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director X 10% Owner
		RES, LLC	3. Date of Earliest Transaction (Month/Day/Year) 07/23/2015	Officer (give title Other (specify below) below)
		D FLOOR	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person
BOSTON	MA	02116		Form filed by More than One Reporting Person
(City)	(State)	(Zip)		

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)	Transaction Code (Instr.					5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)	
Common Stock	07/23/2015		J ⁽¹⁾		1,200,000	D	\$0	2,002,045	Ι	See footnote ⁽²⁾	
Common Stock	07/23/2015		J ⁽³⁾		479,081	A	\$0	479,081	Ι	See footnote ⁽⁴⁾	
Common Stock	07/23/2015		J ⁽⁵⁾		479,081	D	\$0	0	Ι	See footnote ⁽⁴⁾	
Common Stock	07/23/2015		J ⁽⁶⁾		99,351	Α	\$ <mark>0</mark>	271,489	D		

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. Transa Code (8)		of Deriv Secur Acqu (A) or Dispo of (D) (Instr	Derivative (Month/Day/Y Securities Acquired (A) or Disposed		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		nount of Derivative deriva curities Security Security nderlying (Instr. 5) Benef privative curity (Instr. 3) Follow		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:

/s/ Kevin Gillis by power of attorney for Kevin Starr

07/24/2015

** Signature of Reporting Person D

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.