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

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								
houre por roeponeo:	0.5							

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 of Reporting Person* STARR KEVIN P				2. Issuer Name and Ticker or Trading Symbol ZAFGEN, INC. [ZFGN]										5. Relationship of Reporting Person(s) to Issuer (Check all applicable)								
STARK REVINE														X				X 10% (
		VENTURES, LI			3. Date of Earliest Transa 03/24/2015				action (Month/Day/Year)							Offic belov	er (give title w)		Other below	(specify)		
29 NEWBURY STREET, 3RD FLOOR					4. If A	men	dment.	Date o	f Origina	ıl Filed	d (Month/Da	av/Ye	ear)	\dashv	6. Individual or Joint/Group Filing (Check Applicable							
(Street)	I M	A 0)2116						g		(.,	,		Line) X	Forn	n filed by Or	ie Re	porting Pers	son		
																Pers		ne ui	an One Kep	Jording		
(City)	(Sta	ate) (2	Zip)																			
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																					
Date			2. Transac Date (Month/Da	Execution Date,		Date,	Transaction Disp		Disposed (Securities Acquired (A) or isposed Of (D) (Instr. 3, 4 ar			Securities Beneficially Owned Following		ies cially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership				
									Code	v	Amount		(A) or (D)	Pric	:e	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)		
Common Stock				03/24/2	03/24/2015				J ⁽¹⁾		1,400,00	1,400,000 D		4	60 4,20		202,045		I	See footnote ⁽²⁾		
Common Stock			03/24/2	3/24/2015				J ⁽³⁾		346,658 A		4	80	0 346,658				See footnote ⁽⁴⁾				
Common Stock 0:			03/24/2	24/2015				J (5)		346,658		D	\$0		0		I		See footnote ⁽⁴⁾			
Common Stock (03/24/2	03/24/2015				J ⁽⁶⁾		71,989		A	\$0		80,097		D					
		Та									osed of, onvertib					wned						
Derivative Security Conversion Date Execution Date, (Month/Day/Year) Execution Date, if any					ransaction of ode (Instr. Derivative		6. Date Exercisa Expiration Date (Month/Day/Yea		e Ar ear) Se Ur De Se		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		t				10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)				
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	of									

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 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 ** Signature of Reporting Person

03/24/2015

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.