FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
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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).

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*  Hughes Thomas E.						2. Issuer Name <b>and</b> Ticker or Trading Symbol ZAFGEN, INC. [ZFGN]										5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
riugues Tilomas E.						,									X	Directo	r		10% Ov	ner		
(Last)	(Last) (First) (Middle)						Date of Earliest Transaction (Month/Day/Year)										r (give title ')		Other (s below)	pecify		
C/O ZAFGEN, INC.,							09/23/2015									Cl	nief Exec	utive	Officer			
175 PORTLAND STREET, 4TH FLOOR																						
							4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable					
(Street)															Line)		led by One	Reno	orting Persor	,		
BOSTON MA 02114																	Form filed by More than One Reporting					
(City)	(S	tate)	(Zip)													Person						
		Tab	le I - Non	-Deriv	ative	e Se	curit	ies Ac	quir	ed, Di	ispo	osed o	f, or Be	nefi	cially	<b>Owned</b>						
1. Title of Security (Instr. 3)  2. Transa Date (Month/D					ear)	2A. Deemed Execution Date, if any (Month/Day/Year)		Code (Instr. 5)							es For ally (D) Following (I) (I		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership				
									С	ode V	,	Amount	(A) (D)	or F	rice	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)		
Common Stock 09/2					3/2015				М		10,50	10,500 A \$		\$0.75	11,3	11,320(1)		D				
		-	Table II - I										or Ber			Owned				•		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution D if any (Month/Day)	Date, T		ansaction ode (Instr.		of		6. Date Exercisable Expiration Date (Month/Day/Year)			of 7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)			B. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership ct (Instr. 4)		
				c	Code	v	(A)	(D)	Date Exer	: rcisable	Exp Dat	xpiration ate	Title	Am or Nui of Title Sha								
Stock Option (Right to Buy)	\$0.75	09/23/2015			М			10,500		(2)	12/1	15/2018	Common Stock	10	500	\$0.00	53,928 <sup>(</sup>	3)	D			

## **Explanation of Responses:**

- 1. Includes 428 shares acquired under Zafgen, Inc.'s 2014 Employee Stock Purchase Plan (the "Plan") on June 30, 2015 and 392 shares acquired under the Plan on December 31, 2014.
- 2. Fully vested.
- 3. On April 6, 2015, the Reporting Person transferred 64,429 shares under this option pursuant to a court decree. The Reporting Person no longer reports as beneficially owned such transferred securities.

## Remarks:

/s/ Laurie Burlingame, by power of attorney

09/24/2015

Date

\*\* Signature of Reporting Person

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

- $^{\star}$  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.