FORM 3

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

- 1								
	OMB APPROVAL							
	OMB Number: 3235-0							
	Estimated average burden							
	hours per response:	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

Secor Alicia	Date of Event Requiring Statem Month/Day/Year 06/18/2014										
(Last) (First) (Middle) C/O ZAFGEN, INC.,			4. Relationship of Reporting Perso (Check all applicable)  Director  X Officer (give title below)  Chief Commercial	10% Owne	r	If Amendment, Date of Original Filed (Month/Day/Year)      Individual or Joint/Group Filing (Check Applicable Line)					
ONE BROADWAY, 8TH FLOOR				Officer	´						
(Street) CAMBRIDGE MA 02142				Officer		X Form filed by One Reporting Perso Form filed by More than One Reporting Person					
(City) (State) (Zip)											
Table I - Non-Derivative Securities Beneficially Owned											
1. Title of Security (Instr. 4)			2. Amount of Securities Beneficially Owned (Instr. 4)			4. Nature of Indirect Beneficial Ownership (Instr. 5)					
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)											
1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Convers	cise Fo	n Ownership Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)			
		Expiration Date	Title	Amount or Number of Shares	Price of Derivati Security	ve or	irect (D) r Indirect ) (Instr. 5)				
Stock Option (Right to Buy)	(1)	01/30/2024	Common Stock	159,235	9.67	7	D				

## Explanation of Responses:

1. 25% of this option vests on January 2, 2015, and the remainder vests in equal monthly installments thereafter over 36 months.

## Remarks:

/s/ Alicia Secor

06/18/2014

\*\* Signature of Reporting Person

Date

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 5 (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.