UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

(Rule 13d-102)

Information Statement Pursuant to Rules 13d-1 and 13d-2 **Under the Securities Exchange Act of 1934** (Amendment No. 4)*

	ZAFGEN, INC.	
_	(Name of Issuer)	
	Common stock, \$0.001	
	(Title of Class of Securities)	
	98885E103	
	(CUSIP Number)	
	December 31, 2018	
	(Date of Event Which Requires Filing of this Statement)	
Check the appropriate b	ox to designate the rule pursuant to which this schedule is filed:	
[] Rule 13d-1(b)		
[] Rule 13d-1(c)		
[X] Rule 13d-1(d)		

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

1.	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON							
	Atlas Venture Fund VII, L.P.							
2. CHECK THE APPROPRIATE BOX IF A MEMBER OF			IATE ROX IF A MEMBER OF A CROUP*	(a)	0			
2.	CHECK THE	THECK THE AFFROFRIATE BOAT! A MEMBER OF A GROOF			0			
3.	SEC USE ONLY							
4.	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware							
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		SOLE VOTING POWER					
OW			VNED BY 6. SHARED VOTING POWER					
			SOLE DISPOSITIVE POWER					
			SHARED DISPOSITIVE POWER 3,506,184 shares					
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 3,506,184 shares							
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 0							
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 9.40%							
12.	TYPE OF REPORTING PERSON* PN							

Page 2 of 4 Pages

Item 1(a). **Name of Issuer**

The name of the issuer to which this filing on Schedule 13G/A relates is **Zafgen, Inc.** (the "Company").

Item 1(b). Address of Issuer's Principal Executive Offices

The principal executive offices of the Company are located at 175 Portland Street, 4th Floor, Boston, Massachusetts 02114.

Item 2(a). **Name of Person Filing**

This Statement is being filed on behalf of Atlas Venture Fund VII, L.P. ("<u>Atlas VII</u>"). Atlas Venture Associates VII, L.P. ("<u>AVA VII LP</u>") is the sole general partner of Atlas VII. Atlas Venture Associates VII, Inc. ("<u>AVA VII Inc.</u>") is the sole general partner of AVA VII LP. Peter Barrett, Bruce Booth, Jeff Fagnan and Jean-Francois Formela, is each a director of AVA VII Inc. (the "Directors").

Item 2(b). Address of Principal Business Office or, if none, Residence

The principal business address of each of Atlas VII, AVA VII LP, AVA VII Inc. and the Directors is 46 Wareham Street, Boston, MA 02118.

Item 2(c). **Citizenship**

Each of Atlas VII, AVA VII LP and AVA VII Inc. is organized under the laws of Delaware. Mr. Barrett is a citizen of the United States. Mr. Booth is a citizen of the United States. Mr. Formela is a citizen of the United States.

Item 2(d). Title of Class of Securities

The class of equity securities of the Company to which this filing on Schedule 13G/A relates is Common Stock, par value \$0.001 ("Common Stock").

Item 2(e). **CUSIP Number**

The CUSIP number of the Company's Common Stock is 98885E103.

Item 3. If this statement is filed pursuant to §§ 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a: Not applicable.

Item 4. **Ownership**

Item 4(a). Amount beneficially owned

As of the close of business on December 31, 2018, Atlas VII is the record holder of 3,506,184 shares of Common Stock (the "Atlas Shares"). AVA VII LP is the sole general partner of Atlas VII. AVA VII Inc. is the sole general partner of AVA VII LP. Messrs. Barrett, Booth, Fagnan and Formela are the directors of AVA VII Inc. No person other than the respective owner referred to herein of the Atlas Shares is known to have the right to receive or the power to direct the receipt of dividends from or the proceeds from the sale of such Atlas Shares. Each of Atlas VII, AVA VII LP, AVA VII Inc. and the Directors disclaim beneficial ownership of the Atlas Shares except for such shares, if any, such person holds of record.

Item 4(b). Percent of Class

As of the close of business on December 31, 2018, Atlas VII was the beneficial owner of 9.40% of the Common Stock based on 37,287,221 shares outstanding as confirmed by the Company.

Item 4(c). Number of shares as to which the person has:

(i)	sole power to vote or to direct the vote:	0
(ii)	shared power to vote or direct the vote:	3,506,184
(iii)	sole power to dispose or direct the disposition of:	0
(iv)	shared power to dispose or direct the disposition of:	3,506,184

Ownership of Five Percent or Less of a Class Item 5.

Not Applicable.

All other items reported on the Schedule 13G/A dated as of February 12, 2018 and filed on behalf of the Filing Persons with respect to the Common Stock of Zafgen, Inc. remain unchanged.

Dated: February 8, 2019

ATLAS VENTURE FUND VII, L.P. By: Atlas Venture Associates VII, L.P.,

its general partner

By: Atlas Venture Associates VII, Inc.,

its general partner

/s/ Frank Castellucci

Name: Frank Castellucci

Title: Secretary

Page 4 of 4 Pages