The Securities and Exchange Commission has not necessarily reviewed the information in this filing and has not determined if it is accurate and complete.

The reader should not assume that the information is accurate and complete.

UN	F	ES AND EXCHAN gton, D.C. 20549 FORM D ot Offering of Secu		OMB APPROVAL OMB Number: 3235-0076 Estimated average burden hours per response: 4.00
1. Issuer's Identity				
CIK (Filer ID Number)	Previous Names	None	Entity Type	
<u>0001374690</u>	ZAFGEN INC	C	X Corporation	
Name of Issuer			Limited Partner	ship
ZAFGEN, INC.			Limited Liability	Company
Jurisdiction of Incorporation/	Organization		General Partne	rship
DELAWARE			Business Trust	•
Year of Incorporation/Organiz	zation			
Over Five Years Ago			Other (Specify)	
X Within Last Five Years (S	Specify Year) 2005			
Yet to Be Formed				
2. Principal Place of Busine	ess and Contact Information			
Name of Issuer				
ZAFGEN, INC.				
Street Address 1		Street Address 2		
5 CAMBRIDGE CENTER, FLO	OOR 2			
City	State/Province/Country	ZIP/PostalCode	Phone Number of	Issuer
CAMBRIDGE	MA	02142	(617) 864-1645	
3. Related Persons				
Last Name	First Name		Middle Name	
Hughes	Thomas			
Street Address 1	Street Address 2			
c/o Zafgen, Inc.	5 Cambridge Cent	er, Floor 2		
City	State/Province/C	ountry	ZIP/PostalCode	
Cambridge	MA		02142	
Relationship: X Executive C	Officer X Director Promoter			
Clarification of Response (if N	lecessary):			
CEO & President				
Last Name	First Name		Middle Name	
Jaffe	Matthias			
Street Address 1	Street Address 2			
c/o Zafgen, Inc.	5 Cambridge Cent		ZID/Deet-10-1-	
City	State/Province/C	ountry	ZIP/PostalCode	
Cambridge			02142	
Relationship: X Executive C	Officer Director Promoter			
Clarification of Response (if N				
CFO, Treasurer & VP of Busines	ss Development			
Last Name	First Name		Middle Name	
Bloom	Mitchell		S.	

Street Address 1	Street Address 2		
c/o Goodwin Procter LLP	Exchange Place		
City	State/Province/Country	ZIP/PostalCode	
Boston	MA	02109	
Relationship: X Executive Off	icer Director Promoter		
Clarification of Response (if Ne	cessary):		
Secretary			
Last Name	First Name	Middle Name	
Barrett	Peter		
Street Address 1	Street Address 2		
c/o Zafgen, Inc.	5 Cambridge Center, Floor 2		
City	State/Province/Country	ZIP/PostalCode	
Cambridge	MA	02142	
Relationship: Executive Off	icer X Director Promoter		
Clarification of Response (if Ne	cessary):		
Last Name	First Name	Middle Name	
Goldberg	Ari		
Street Address 1	Street Address 2		
c/o Zafgen, Inc.	5 Cambridge Center, Floor 2		
City	State/Province/Country	ZIP/PostalCode	
Cambridge	MA	02142	
Relationship: Executive Off	icer X Director Promoter		
Clarification of Response (if Ne	cessary):		
Last Name	First Name	Middle Name	
Starr	Kevin		
Street Address 1	Street Address 2		
c/o Zafgen, Inc.	5 Cambridge Center, Floor 2		
City	State/Province/Country	ZIP/PostalCode	
Cambridge	MA	02142	
Relationship: Executive Off	icer X Director Promoter		
Clarification of Response (if Ne	cessary):		
Last Name	First Name	Middle Name	
Booth	Bruce		
Street Address 1	Street Address 2		
c/o Zafgen, Inc.	5 Cambridge Center, Floor 2		
City	State/Province/Country	ZIP/PostalCode	
Cambridge	MA	02142	
Relationship: Executive Off	icer X Director Promoter		
Clarification of Response (if Ne	cessary):		
Last Name	First Name	Middle Name	
Ratcliffe	Dr. Liam		
Street Address 1	Street Address 2		
c/o Zafgen, Inc.	5 Cambridge Center, Floor 2		
City	State/Province/Country	ZIP/PostalCode	
Cambridge	MA	02142	
Relationship: Executive Off	icer X Director Promoter		

Clarification of Response (if Necessary):

Last Name	First Name	Middle Name	
Tartaglia	Louis		
Street Address 1	Street Address 2		
c/o Zafgen, Inc.	5 Cambridge Center, Floor 2		
City	State/Province/Country	ZIP/PostalCode	
Cambridge	MA	02142	
Relationship: Executive Officer Director Promoter			

Clarification of Response (if Necessary):

4. Industry Group		
Agriculture Banking & Financial Services Commercial Banking Insurance Investing Investing Investment Banking Pooled Investment Fund Is the issuer registered as an investment company under the Investment Company Act of 1940? Yes No Other Banking & Financial Services Business Services Energy Coal Mining Electric Utilities Energy Conservation Oil & Gas Other Energy	Health Care Biotechnology Health Insurance Hospitals & Physicians Pharmaceuticals Other Health Care Manufacturing Real Estate Commercial Construction REITS & Finance Residential Other Real Estate	Retailing Restaurants Technology Computers Telecommunications Other Technology Travel Airlines & Airports Lodging & Conventions Tourism & Travel Services Other Travel Other Travel

5. Issuer Size

Revenue Range OR	Aggregate Net Asset Value Range
No Revenues	No Aggregate Net Asset Value
\$1 - \$1,000,000	\$1 - \$5,000,000
\$1,000,001 - \$5,000,000	\$5,000,001 - \$25,000,000
\$5,000,001 - \$25,000,000	\$25,000,001 - \$50,000,000
\$25,000,001 - \$100,000,000	\$50,000,001 - \$100,000,000
Over \$100,000,000	Over \$100,000,000
X Decline to Disclose	Decline to Disclose
Not Applicable	Not Applicable

6. Federal Exemption(s) and Exclusion(s) Claimed (select all that apply)

Rule 504(b)(1) (not (i), (ii) or (iii))

Rule 504 (b)(1)(i) Rule 504 (b)(1)(ii)

Rule 505 X Rule 506 Securities Act Section 4(5)

Rule 504 (b)(1)(iii)	Investment Compan	y Act Section 3(c)	
	Section 3(c)(1)	Section 3(c)(9)	
	Section 3(c)(2)	Section 3(c)(10)	
	Section 3(c)(3)	Section 3(c)(11)	
	Section 3(c)(4)	Section 3(c)(12)	
	Section 3(c)(5)	Section 3(c)(13)	
	Section 3(c)(6)	Section 3(c)(14)	
	Section 3(c)(7)		
7. Type of Filing			
X New Notice Date of First Sale 2010-02-17 Amendment	First Sale Yet to Occur		
8. Duration of Offering			
Does the Issuer intend this offering to last more the	an one year? X Yes I	No	
9. Type(s) of Securities Offered (select all that a	oply)		
X Equity		Pooled Investment Fund Interests	
Debt		Tenant-in-Common Securities	
Option, Warrant or Other Right to Acquire Anoth		Mineral Property Securities	
Security to be Acquired Upon Exercise of Optic Right to Acquire Security	in, Warrant or Other	Other (describe)	
10. Business Combination Transaction			
Is this offering being made in connection with a buint merger, acquisition or exchange offer?	siness combination transa	ction, such as a Yes X No	
Clarification of Response (if Necessary):			
11. Minimum Investment			
Minimum investment accepted from any outside in	vestor \$0 USD		
12. Sales Compensation			
Recipient	Recipient	CRD Number X None	
(Associated) Broker or Dealer \overline{X} None		ted) Broker or Dealer CRD Number $\overline{\mathrm{X}}$ None	
Street Address 1 City	Street Ad State/Pro	dress 2 vince/Country	ZIP/Postal Code
State(s) of Solicitation (select all that apply) Check "All States" or check individual States	Il States	n/non-US	
13. Offering and Sales Amounts			
Total Offering Amount \$10,125,000 USD or	Indefinite		
Total Amount Sold \$8,100,000 USD			
Total Remaining to be Sold \$2,025,000 USD or	Indefinite		
Clarification of Response (if Necessary):			
14. Investors			

Select if securities in the offering have been or may be sold to	o persons who do not qualify as accredited investors, and
enter the number of such non-accredited investors who alread	ly have invested in the offering.

Regardless of whether securities in the offering have been or may be sold to persons who do not qualify as accredited investors, enter the total number of investors who already have invested in the offering:

3

15. Sales Commissions & Finder's Fees Expenses

Provide separately the amounts of sales commissions and finders fees expenses, if any. If the amount of an expenditure is not known, provide an estimate and check the box next to the amount.

Sales Commissions \$0 USD	Estimate
Finders' Fees \$0 USD	Estimate

Clarification of Response (if Necessary):

16. Use of Proceeds

Provide the amount of the gross proceeds of the offering that has been or is proposed to be used for payments to any of the persons required to be named as executive officers, directors or promoters in response to Item 3 above. If the amount is unknown, provide an estimate and check the box next to the amount.

\$0 USD Estimate

Clarification of Response (if Necessary):

Signature and Submission

Please verify the information you have entered and review the Terms of Submission below before signing and clicking SUBMIT below to file this notice.

Terms of Submission

In submitting this notice, each issuer named above is:

- Notifying the SEC and/or each State in which this notice is filed of the offering of securities described and undertaking to furnish them, upon written request, in the accordance with applicable law, the information furnished to offerees.*
- Irrevocably appointing each of the Secretary of the SEC and, the Securities Administrator or other legally designated officer of the State in which the issuer maintains its principal place of business and any State in which this notice is filed, as its agents for service of process, and agreeing that these persons may accept service on its behalf, of any notice, process or pleading, and further agreeing that such service may be made by registered or certified mail, in any Federal or state action, administrative proceeding, or arbitration brought against it in any place subject to the jurisdiction of the United States, if the action, proceeding or arbitration (a) arises out of any activity in connection with the offering of securities that is the subject of this notice, and (b) is founded, directly or indirectly, upon the provisions of: (i) the Securities Act of 1933, the Securities Exchange Act of 1934, the Trust Indenture Act of 1939, the Investment Company Act of 1940, or the Investment Advisers Act of 1940, or any rule or regulation under any of these statutes, or (ii) the laws of the State in which the issuer maintains its principal place of business or any State in which this notice is filed.
- Certifying that, if the issuer is claiming a Rule 505 exemption, the issuer is not disqualified from relying on Rule 505 for one of the reasons stated in Rule 505(b)(2)(iii).

Each Issuer identified above has read this notice, knows the contents to be true, and has duly caused this notice to be signed on its behalf by the undersigned duly authorized person.

For signature, type in the signer's name or other letters or characters adopted or authorized as the signer's signature.

Issuer	Signature	Name of Signer	Title	Date
ZAFGEN, INC.	Matthias Jaffe	Matthias Jaffe	CFO, Treasurer & VP of Business Development	2010-03-01

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.

* This undertaking does not affect any limits Section 102(a) of the National Securities Markets Improvement Act of 1996 ("NSMIA") [Pub. L. No. 104-290, 110 Stat. 3416 (Oct. 11, 1996)] imposes on the ability of States to require information. As a result, if the securities that are the subject of this Form D are "covered securities" for purposes of NSMIA, whether in all instances or due to the nature of the offering that is the subject of this Form D. States cannot routinely require offering materials under this undertaking or otherwise and can require offering materials only to the extent NSMIA permits them to do so under NSMIA's preservation of their anti-fraud authority.