SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

SCHEDULE 13G

(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b)(c), AND (d) AND AMENDMENTS THERETO FILED

PURSUANT TO RULE 13d-2(b)

(Amendment No.)*

Synlogic, Inc.
(Name of Issuer)
Common Stock
(Title of Class of Securities)
87166L100
(CUSIP Number)
August 28, 2017
(Date of Event Which Requires Filing of this Statement)
Check the appropriate box to designate the rule pursuant to which this Schedule is filed:
□ Rule 13d-1(b)
⊠ Rule 13d-1(c)
□ Rule 13d-1(d)
(Page 1 of 9 Pages)

* 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 the disclosures provided in a prior cover page.

The information required in 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 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).

NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)		
Deerfield Management	Company, L.P.	
		(a) □ (b) ⊠
SEC USE ONLY		
CITIZENSHIP OR PLACE OF ORGANIZATION		
Delaware		
5.	SOLE VOTING POWER	
	0	
6.	SHARED VOTING POWER	
	850,143 (1)	
7.	SOLE DISPOSITIVE POWER	
	0	
8.	SHARED DISPOSITIVE POWER	
	850,143 (1)	
AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
850,143 (1)		
CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* □		
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
5.22%		
	FPERSON*	
PN		
	I.R.S. IDENTIFICATION Deerfield Management of CHECK THE APPROPOSE SEC USE ONLY SEC USE ONLY CITIZENSHIP OR PLANTING SEC USE ONLY 6. 7. 8. AGGREGATE AMOUNT SECONDARY PERCENT OF CLASS 5.22% TYPE OF REPORTING	LR.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) Deerfield Management Company, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP* SEC USE ONLY CITIZENSHIP OR PLACE OF ORGANIZATION Delaware 5. SOLE VOTING POWER 0. SHARED VOTING POWER 850,143 (1) 7. SOLE DISPOSITIVE POWER 0 8. SHARED DISPOSITIVE POWER 850,143 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 850,143 (1) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 5.22% TYPE OF REPORTING PERSON*

⁽¹⁾ Comprised of shares of common stock held by Deerfield Private Design Fund III, L.P., of which Deerfield Management Company, L.P. is the investment advisor.

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) Deerfield Mgmt III, L.P.		
2.	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP*	(a) □ (b) ⊠
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLA	ACE OF ORGANIZATION	
	Delaware		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES	6.	SHARED VOTING POWER	
BENEFICIALLY OWNED BY		050 143 (2)	
EACH	7.	850,143 (2) SOLE DISPOSITIVE POWER	
REPORTING PERSON			
WITH	8.	0 SHARED DISPOSITIVE POWER	
	0.		
		850,143 (2)	
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	850,143 (2)		
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*		
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
	5.22%		
12.	TYPE OF REPORTING PERSON*		
	PN		

(2) Comprised of shares of common stock held by Deerfield Private Design Fund III, L.P., of which Deerfield Mgmt III, L.P. is the general partner.

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)		
	Deerfield Private Design		
2.	CHECK THE APPROP	PRIATE BOX IF A MEMBER OF A GROUP*	(a) □ (b) ⊠
			(U) E
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLA	ACE OF ORGANIZATION	
	Delaware		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES	6.	SHARED VOTING POWER	
BENEFICIALLY OWNED BY		050.442	
EACH	7.	850,143 SOLE DISPOSITIVE POWER	
REPORTING PERSON	,.		
WITH		0	
	8.	SHARED DISPOSITIVE POWER	
		850,143	
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	850,143	·	
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*		
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
	5.22%		
12.	TYPE OF REPORTING	G PERSON*	
	PN		
	PIN		

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) James E. Flynn		
2.	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP*	(a) □ (b) ⊠
3.	SEC USE ONLY		
4.	CITIZENSHIP OR PLA	ACE OF ORGANIZATION	
	United States		
	5.	SOLE VOTING POWER	
NUMBER OF		0	
SHARES	6.	SHARED VOTING POWER	
BENEFICIALLY OWNED BY		850,143 (3)	
EACH REPORTING	7.	SOLE DISPOSITIVE POWER	
PERSON		0	
WITH	8.	SHARED DISPOSITIVE POWER	
9.	AGGREGATE AMOU	850,143 (3) NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
5.		WI BENEFICIALET OWNED BY ENGINEFORTING FEROON	
	850,143 (3)		
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*		
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9		
	5.22%		
12.	TYPE OF REPORTING PERSON*		
	IN		

(3) Comprised of shares of common stock held by Deerfield Private Design Fund III, L.P.

All Reporting Persons - 0

James E. Flynn - 850,143

Deerfield Mgmt III, L.P. - 850,143

Deerfield Management Company, L.P. - 850,143

Deerfield Private Design Fund III, L.P. - 850,143

Sole power to dispose or to direct the disposition of:

Shared power to dispose or to direct the disposition of:

(iii)

(iv)

^{**}See footnotes on cover pages which are incorporated by reference herein.

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

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities check the following \Box .

Item 6. Ownership of More Than Five Percent on Behalf of Another Person.

If any other person 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 securities, a statement to that effect should be included in response to this item and, if such interest relates to more than five percent of the class, such person should be identified. A listing of the shareholders of an investment company registered under the Investment Company Act of 1940 or the beneficiaries of employee benefit plan, pension fund or endowment fund is not required.

N/A

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

If a parent holding company or Control person has filed this schedule, pursuant to Rule 13d-1(b)(1)(ii)(G), so indicate under Item 3(g) and attach an exhibit stating the identity and the Item 3 classification of the relevant subsidiary. If a parent holding company or control person has filed this schedule pursuant to Rule 13d-1(c) or Rule 13d-1(d), attach an exhibit stating the identification of the relevant subsidiary.

N/A

Item 8. Identification and Classification of Members of the Group.

If a group has filed this schedule pursuant to ss.240.13d-1(b)(1)(ii)(J), so indicate under Item 3(j) and attach an exhibit stating the identity and Item 3 classification of each member of the group. If a group has filed this schedule pursuant to ss.240.13d-1(c) or ss.240.13d-1(d), attach an exhibit stating the identity of each member of the group.

See Exhibit B

Item 9. Notice of Dissolution of Group.

Notice of dissolution of a group may be furnished as an exhibit stating the date of the dissolution and that all further filings with respect to transactions in the security reported on will be filed, if required, by members of the group, in their individual capacity. See Item 5.

N/A

Item 10. Certifications.

"By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect, other than activities solely in connection with a nomination under §240.14a-11."

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

DEERFIELD MANAGEMENT COMPANY, L.P.

By: Flynn Management LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD MGMT III, L.P.

By: J.E. Flynn Capital III, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD PRIVATE DESIGN FUND III, L.P.

By: Deerfield Mgmt III, L.P., General Partner

By: J.E. Flynn Capital III, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

JAMES E. FLYNN

/s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

Date: September 5, 2017

Exhibit List

Exhibit A . Joint Filing Agreement.

Exhibit B. Item 8 Statement.

Exhibit C.(1) Power of Attorney.

(1) Power of Attorney previously filed as Exhibit 24 to a Form 3 with regard to Proteon Therapeutics, Inc. filed with the Securities and Exchange Commission on August 4, 2017 by Deerfield Special Situations Fund, L.P., Deerfield Partners, L.P., Deerfield International Master Fund, L.P., Deerfield Private Design Fund III, L.P., Deerfield Mgmt III, L.P., Deerfield Mgmt IV, L.P., Deerfield Management Company, L.P., and James E. Flynn.

Exhibit A

Agreement

The undersigned agree that this Schedule 13G, and all amendments thereto, relating to the Common Stock of Synlogic, Inc. shall be filed on behalf of the undersigned.

DEERFIELD MANAGEMENT COMPANY, L.P.

By: Flynn Management LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD MGMT III, L.P.

By: J.E. Flynn Capital III, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD PRIVATE DESIGN FUND III, L.P.

By: Deerfield Mgmt III, L.P., General Partner

By: J.E. Flynn Capital III, LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

JAMES E. FLYNN

/s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

Exhibit B

Due t	the relationships between them, the reporting persons hereunder may be deemed to constitute a "group'	" with one another for purposes of
Section 13(d)(3	of the Securities Exchange Act of 1934.	