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. 1) *

Synlogic, Inc.

(Name of Issuer)

Common Stock

(Title of Class of Securities)

87166L100

(CUSIP Number)

January 26, 2018

(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 11 Pages)

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).

^{*} 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.

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)			
	Deerfield Mgmt, L.P.			
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*			
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		257 500 (1)		
EACH	7.	257,500 (1) SOLE DISPOSITIVE POWER		
REPORTING PERSON				
WITH	8.	0 SHARED DISPOSITIVE POWER		
	0.			
		257,500 (1)		
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	257,500 (1)			
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*			
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9			
	1.20%			
12.	TYPE OF REPORTING PERSON*			
	PN			

(1) Comprised of shares of common stock held by held by Deerfield Special Situations Fund, L.P. of which Deerfield Mgmt, L.P. is the general partner.

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)				
	Deerfield Management		(a)		
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*				
			(b)		
3.	SEC USE ONLY				
4.	CITIZENSHIP OR PLA	ICE OF ORGANIZATION			
	Delaware				
	5.	SOLE VOTING POWER			
NUMBER OF		0			
SHARES	6.	SHARED VOTING POWER			
BENEFICIALLY OWNED BY		1,365,143 (2)			
EACH	7.	SOLE DISPOSITIVE POWER			
REPORTING PERSON	RSON				
WITH	8.	0 SHARED DISPOSITIVE POWER			
	0.	SHARED DISPOSITIVE POWER			
		1,365,143 (2)			
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	1,365,143 (2)				
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*				
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9				
	6.37%				
12.	TYPE OF REPORTING	FPERSON*			
	PN				

⁽²⁾ Comprised of shares of common stock held by Deerfield Special Situations Fund, L.P. and 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 Special Situations Fund, L.P.					
2.	CHECK THE APPROP	(a) □ (b) ⊠				
3.	SEC USE ONLY					
4.	CITIZENSHIP OR PLACE OF ORGANIZATION					
	Delaware					
	5.	SOLE VOTING POWER				
NUMBER OF		0				
SHARES	6.	SHARED VOTING POWER				
BENEFICIALLY OWNED BY		257,500				
EACH REPORTING	7.	SOLE DISPOSITIVE POWER				
PERSON						
WITH	8.	0 SHARED DISPOSITIVE POWER				
	0.	SHARED DISTOSTITVE FOWER				
		257,500				
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	257,500					
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* □					
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9					
	1.20%					
12.	TYPE OF REPORTING	PERSON*				
	PN					
II	FIN					

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) Deerfield Mgmt III, L.P.				
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*				
3.	SEC USE ONLY				
4.	CITIZENSHIP OR PLACE OF ORGANIZATION				
	Delaware				
	5.	SOLE VOTING POWER			
NUMBER OF		0			
SHARES	6.	SHARED VOTING POWER			
BENEFICIALLY OWNED BY		1 107 642 (2)			
EACH	7.	1,107,643 (3) SOLE DISPOSITIVE POWER			
REPORTING PERSON	, ·	SOLL DISTOSITIVE TOWER			
WITH		0			
	8.	SHARED DISPOSITIVE POWER			
		1,107,643 (3)			
9.	AGGREGATE AMOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	1,107,643 (3)				
10.		AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*	П		
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* □				
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9				
	5.17%				
12.	TYPE OF REPORTING	TYPE OF REPORTING PERSON*			
	PN				

⁽³⁾ 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	n Fund III, L.P.			
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*				
3.	SEC USE ONLY				
4.	CITIZENSHIP OR PLACE OF ORGANIZATION				
	Delaware				
	5.	SOLE VOTING POWER			
NUMBER OF		0			
SHARES	6.	SHARED VOTING POWER			
BENEFICIALLY OWNED BY		1,107,643			
EACH REPORTING	7.	SOLE DISPOSITIVE POWER			
PERSON					
WITH	8.	0 SHARED DISPOSITIVE POWER			
	0.				
	A CODECATE AMOVE	1,107,643			
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	1,107,643				
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*				
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9				
	5.17%				
12.	TYPE OF REPORTING	PERSON*			
	PN				

1.	NAME OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)				
	James E. Flynn				
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*				
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					
EACH	7.	1,365,143 (4) SOLE DISPOSITIVE POWER			
REPORTING PERSON	/.	SOLE DISPOSITIVE FOWER			
WITH		0			
	8.	SHARED DISPOSITIVE POWER			
		1,365,143 (4)			
9.	AGGREGATE AMOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	1,365,143 (4)				
10.	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*				
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9				
	6.37%				
12.	TYPE OF REPORTING PERSON*				
	IN				

⁽⁴⁾ Comprised of shares of common stock held by Deerfield Special Situations Fund, L.P. and Deerfield Private Design Fund III, L.P.

Deerfield Management Company, L.P. – 1,365,143 Deerfield Special Situations Fund, L.P. - 257,500

Deerfield Private Design Fund III, L.P. - 1,107,643

Deerfield Mgmt III, L.P. - 1,107,643

James E. Flynn - 1,365,143

disposition of:

**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 MGMT, L.P.

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

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD MANAGEMENT COMPANY, L.P.

By: Flynn Management LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD SPECIAL SITUATIONS FUND, L.P.

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

By: J.E. Flynn Capital, 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: January 29, 2018

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 MGMT, L.P.

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

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD MANAGEMENT COMPANY, L.P.

By: Flynn Management LLC, General Partner

By: /s/ Jonathan Isler

Jonathan Isler, Attorney-In-Fact

DEERFIELD SPECIAL SITUATIONS FUND, L.P.

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

By: J.E. Flynn Capital, 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: <u>/s/ Jonathan Isler</u>

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	e to the relationships between them,	the reporting persons	hereunder may be	e deemed to constitute a	"group"	with one another for	purposes of
Section 13(d)(3) of the Securities Exchange Act	of 1934.					