FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APP	ROVAL				
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Barrett Peter (f)		Date of Event equiring Statem Month/Day/Year 8/28/2017	nent	3. Issuer Name and Ticker or Trading Symbol SYNLOGIC, INC. [SYBX]					
(Last) (First) C/O SYNLOGIC, INC	(Middle)			Relationship of Reporting Pers (Check all applicable) X Director	on(s) to Issue	(Mo	Amendment, Danth/Day/Year)	ate of Original Filed	
200 SIDNEY STREE			Officer (give title below)	Other (spe below)		dividual or Joint licable Line)	t/Group Filing (Check		
(Street) CAMBRIDGE MA	02139) X		y One Reporting Person y More than One erson	
(City) (State)	(Zip)								
	T	able I - Non	-Derivati	tive Securities Beneficial	ly Owned				
1. Title of Security (Instr. 4)			2.	2. Amount of Securities			4. Nature of Indirect Beneficial Ownership (Instr. 5)		
	,			Beneficially Owned (Instr. 4)	Form: Direct (. 5)	·	
Common Stock	,			2,651,963 ⁽¹⁾	Form: Direct (1)` ′ `	•	Fund IX, L.P. ⁽¹⁾⁽²⁾⁽³⁾	
Common Stock			erivative		Form: Direct or Indirect (Instr. 5)	By A	•	Fund IX, L.P. ⁽¹⁾⁽²⁾⁽³⁾	
Common Stock 1. Title of Derivative Secu	(e.g		Perivative S, warran	2,651,963 ⁽¹⁾ e Securities Beneficially	Form: Direct or Indirect (Instr. 5) I Owned Securities	By A	•	Fund IX, L.P. ⁽¹⁾⁽²⁾⁽³⁾ 6. Nature of Indirect Beneficial Ownership (Instr. 5)	

Explanation of Responses:

- 1. Shares of capital stock of the corporation then known as Synlogic, Inc. ("Old Synlogic") were converted into shares of the Issuer pursuant to that certain Agreement and Plan of Merger and Reorganization, dated as of May 15, 2017, by and among the Issuer, Meerkat Merger Sub, Inc. and Old Synlogic (the "Merger Agreement"). Pursuant to the terms of the Merger Agreement, each share of capital stock was exchanged for 0.5532 shares of the Issuer's common stock, after giving effect to a reverse split of the Issuer's common stock of 7-to-1.
- 2. Represents (i) 500,000 shares of common stock of Old Synlogic, (ii) 559,770 shares of Series A-1 preferred stock of Old Synlogic, (iii) 790,476 shares of Series A-2 preferred stock of Old Synlogic, (iv) 1,474,998 shares of Series A-3 preferred stock of Old Synlogic, (v) 1,096,408 shares of Series B preferred stock of Old Synlogic and (vi) 372,209 shares of Series C preferred stock of Old Synlogic, in each case prior to conversion pursuant to the Merger Agreement.
- 3. The reportable securities are owned by Atlas Venture Fund IX, L.P. ("Atlas IX"). Atlas Venture Associates IX, L.P. ("AVA IX LP"), is the general partner of Atlas IX, and Atlas Venture Associates IX, LLC ("AVA IX LLC"), is the general partner of AVA IX LP. The Reporting Person disclaims Section 16 beneficial ownership of the securities held by Atlas IX, except to the extent of his pecuniary interest therein, if any.

Remarks:

/s/ Peter Barrett

08/30/2017

** Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- * 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.