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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Gutierrez-Ramos Jose-Carlos	2. Date of Ever Requiring State (Month/Day/Ye 08/28/2017	ement	3. Issuer Name and Ticker or Trading Symbol SYNLOGIC, INC. [SYBX]								
Last) (First) (Middle) C/O SYNLOGIC, INC.			Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner			(Mc	5. If Amendment, Date of Original Filed (Month/Day/Year)				
200 SIDNEY STREET, SUITE 320			X	Officer (give title below)	Other (spec below)		ndividual or Joint licable Line)	/Group Filing (Check			
(Street) CAMBRIDGE MA 02139				See Remark	s	2		y One Reporting Person y More than One erson			
(City) (State) (Zip)											
Table I - Non-Derivative Securities Beneficially Owned											
1. Title of Security (Instr. 4)				nt of Securities ally Owned (Instr. 4)			4. Nature of Indirect Beneficial Ownership (Instr. 5)				
Common Stock ⁽¹⁾				362,619 ⁽²⁾	D						
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)											
(e.						5)					
1. Title of Derivative Security (Instr. 4)		ills, warra	ants, o		securities	4. Conversion	Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)			
,	g., puts, ca 2. Date Exerc Expiration Da	ills, warra	3. Title Under	ptions, convertible	securities	4. Conversion	Ownership	Beneficial Ownership			

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, giving effect to a reverse split of the Issuer's common stock of 7-to-1.
- 2. On May 15, 2017, Reporting Person was granted 655,494 shares of common stock of Old Synlogic subject to a restricted stock agreement by and between Old Synlogic and the Reporting Person, under the 2017 Stock Plan (the "2017 Plan"). Pursuant to the Merger Agreement, this common stock was converted into 362,619 shares of the Issuer's common stock. One-fourth of the total number of shares subject to the restricted stock agreement vest on May 14, 2016 and the remainder vest in equal monthly installments until May 14, 2019, provided that at the relevant vesting dates the Reporting Person continues service to the Issuer and has not been terminated as defined in and as determined under the 2017 Plan.
- 3. On May 15, 2017, Reporting Person was granted an option to purchase 300,000 shares of common stock of Old Synlogic under the 2017 Plan at an exercise price of \$7.48 per share. Pursuant to the Merger Agreement, this option was converted into an option to purchase 165,960 shares of the Issuer's common stock at a per share exercise price of \$13.53. The shares vest in equal monthly installments beginning on June 15, 2017 and continuing until May 15, 2021, provided that at the relevant vesting dates the Reporting Person continues service to the Issuer and has not been terminated as defined in and as determined under the Plan. The option expires ten years after the date of the grant.

Remarks:

President and Chief Executive Officer

/s/ William J. Bussiere, Jr., 08/30/2017 Attorney-in-fact

** 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.

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