

**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

OMB APPROVAL	
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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

1. Name and Address of Reporting Person* <u>Leschly Nick</u>  (Last) (First) (Middle) <u>C/O SYNLOGIC, INC.</u> <u>200 SIDNEY STREET, SUITE 320</u>  (Street) <u>CAMBRIDGE MA</u> <u>02139</u>  (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) <u>08/28/2017</u>	3. Issuer Name and Ticker or Trading Symbol <u>SYNLOGIC, INC. [ SYBX ]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)	5. If Amendment, Date of Original Filed (Month/Day/Year)  6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Beneficially Owned**

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
<u>Common Stock<sup>(1)</sup></u>	<u>23,150<sup>(2)</sup></u>	<u>D</u>	

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)	4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date				
<u>Stock Option (right to buy)<sup>(1)</sup></u>	<u>(3)</u>	<u>05/15/2027</u>	<u>Common Stock</u> <u>18,967<sup>(3)</sup></u>	<u>13.53</u>	<u>D</u>	

**Explanation of Responses:**

- 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.
- On May 15, 2017, Reporting Person was granted 41,849 shares of common stock of Old Synlogic subject to a restricted stock agreement, dated May 15, 2017, 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 23,150 shares of the Issuer's common stock. One-fourth of the total number of shares subject to the restricted stock agreement vest on March 15, 2017 and the remainder vest in equal monthly installments until March 15, 2020, provided that at the relevant vesting dates the Reporting Person continues service to the Issuer as defined in and as determined under the 2017 Plan.
- On May 15, 2017, Reporting Person was granted an option to purchase 34,287 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 18,967 shares of the Issuer's common stock at a per share exercise price of \$13.53. One fourth of the total number of shares subject to the option vest on March 15, 2017 and the remainder vest in equal monthly installments until March 15, 2020, provided that at the relevant vesting dates the Reporting Person continues service to the Issuer as defined in and as determined under the Plan. The option expires ten years after the date of the grant.

**Remarks:**

/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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