**Statement of Changes in Beneficial Ownership**

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

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**1. Name and Address of Reporting Person**

Mathers Edward T

(Last) (First) (Middle)

1954 GREENSPRING DRIVE

SUITE 600

TIMONIUM MD 21093

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**2. Issuer Name and Ticker or Trading Symbol**

SYNLOGIC, INC. [ SYBX ]

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**3. Date of Earliest Transaction (Month/Day/Year)**

06/22/2023

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**4. If Amendment, Date of Original Filed (Month/Day/Year)**

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**5. Relationship of Reporting Person(s) to Issuer**

X Director

10% Owner

Officer (give title below)

Other (specify below)

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**Rule 10b5-1(c) Transaction Indication**

Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.

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### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

<table>
<thead>
<tr>
<th>Title of Security (Instr. 3)</th>
<th>Transaction Date (Month/Day/Year)</th>
<th>Deemed Execution Date, if any (Month/Day/Year)</th>
<th>Transaction Code (Instr. 8)</th>
<th>Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)</th>
<th>Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)</th>
<th>Ownership Form: Direct (D) or Indirect (I) (Instr. 4)</th>
<th>Nature of Indirect Beneficial Ownership (Instr. 4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock</td>
<td>06/22/2023</td>
<td>A</td>
<td>30,000</td>
<td>(1)</td>
<td>06/22/2033</td>
<td>30,000</td>
<td>D</td>
</tr>
</tbody>
</table>

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### Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

<table>
<thead>
<tr>
<th>Title of Derivative Security (Instr. 3)</th>
<th>Conversion or Exercise Price of Derivative Security</th>
<th>Transaction Date (Month/Day/Year)</th>
<th>Deemed Execution Date, if any (Month/Day/Year)</th>
<th>Transaction Code (Instr. 8)</th>
<th>Number of Derivative Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)</th>
<th>Date Exercisable or Expiration Date</th>
<th>Title of Underlying Securities (Instr. 3 and 4)</th>
<th>Amount or Number of Shares</th>
<th>Ownership Form: Direct (D) or Indirect (I) (Instr. 4)</th>
<th>Nature of Indirect Beneficial Ownership (Instr. 4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock Option (right to buy)</td>
<td>$0.504</td>
<td>06/22/2023</td>
<td>A</td>
<td>(D)</td>
<td>30,000</td>
<td>06/22/2033</td>
<td>Common Stock</td>
<td>30,000</td>
<td>D</td>
<td>D</td>
</tr>
</tbody>
</table>

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**Explanation of Responses:**

1. The option vests and becomes exercisable in full on the earlier of (A) the first anniversary of the date of grant or (B) immediately prior to the next annual meeting of the Corporation's stockholders after the date of grant, subject to the non-employee director's continued service as a director of the Corporation.

**Remarks:**

/s/ Louis Citron, attorney-in-fact 06/26/2023

**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 4 (b)(v).

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.