**Form 4**

United States Securities and Exchange Commission

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

1. Name and Address of Reporting Person*  
   DeVaul William  
   (Last)  (First)  (Middle)  
   C/O MORPHIC HOLDING, INC.  
   35 GATEHOUSE DRIVE, A2  
   WALTHAM  MA  02451

2. Issuer Name and Ticker or Trading Symbol  
   Morphic Holding, Inc. [ MORF ]

3. Date of Earliest Transaction (Month/Day/Year)  
   08/13/2020

4. If Amendment, Date of Original Filed (Month/Day/Year)  
   08/14/2020

5. Relationship of Reporting Person(s) to Issuer  
   (Check all applicable)  
   X Director  
   X Officer (give title below)  
   General Counsel and Secretary

6. Individual or Joint/Group Filing (Check Applicable Line)  
   X Form filed by One Reporting Person  
   Form filed by More than One Reporting Person

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

<table>
<thead>
<tr>
<th>1. Title of Security (Instr. 3)</th>
<th>2. Transaction Date (Month/Day/Year)</th>
<th>2A. Deemed Execution Date, if any (Month/Day/Year)</th>
<th>3. Transaction Code (Instr. 8)</th>
<th>4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)</th>
<th>5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)</th>
<th>6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)</th>
<th>7. Nature of Indirect Beneficial Ownership (Instr. 4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common Stock</td>
<td>08/13/2020</td>
<td></td>
<td>M</td>
<td>1,104</td>
<td>4,364</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td>Common Stock</td>
<td>08/13/2020</td>
<td></td>
<td>$1</td>
<td>1,104</td>
<td>30.132(2)</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td>Common Stock</td>
<td>08/14/2020</td>
<td></td>
<td>M</td>
<td>1,201</td>
<td>4,32 8</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td>Common Stock</td>
<td>08/14/2020</td>
<td></td>
<td>$1</td>
<td>1,201</td>
<td>30.3412(3)</td>
<td>D</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>1. Title of Derivative Security (Instr. 3)</th>
<th>2. Conversion or Exercise Price of Derivative Security</th>
<th>3. Transaction Date (Month/Day/Year)</th>
<th>3A. Deemed Execution Date, if any (Month/Day/Year)</th>
<th>4. Transaction Code (Instr. 8)</th>
<th>5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)</th>
<th>6. Date Exercisable and Expiration Date (Month/Day/Year)</th>
<th>7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)</th>
<th>8. Price of Derivative Security (Instr. 5)</th>
<th>9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)</th>
<th>10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)</th>
<th>11. Nature of Indirect Beneficial Ownership (Instr. 4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock Option (right to buy Common Stock)</td>
<td>4.32</td>
<td>08/13/2020</td>
<td>M</td>
<td>1,104 (4)</td>
<td>12/14/2028 Common Stock 1,104 $0.00 180,750</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stock Option (right to buy Common Stock)</td>
<td>4.32</td>
<td>08/14/2020</td>
<td>M</td>
<td>1,201 (4)</td>
<td>12/14/2028 Common Stock 1,201 $0.00 179,549</td>
<td>D</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Explanation of Responses:**

1. The sales reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person.
2. The reported price in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from $30.01 to $30.47 per share, inclusive. The reporting person undertakes to provide to the issuer, any security holder of the issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnot.
3. The reported price in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from $30.28 to $30.41 per share, inclusive. The reporting person undertakes to provide to the issuer, any security holder of the issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnot.
4. The option vests as to 2.0833% of the total shares monthly, beginning October 30, 2018, with 100% of the total shares vested and exercisable on September 30, 2022, subject to the reporting person's provision of service to the issuer on each vesting date.

**Remarks:**

/\ Robert Farrell as attorney-in-fact for William DeVaul 09/17/2020  
**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.