

☐ Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

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* <u>Rogers Bruce</u> <hr/> (Last) (First) (Middle) <u>C/O MORPHIC HOLDING, INC.</u> <u>35 GATEHOUSE DRIVE, A2</u> <hr/> (Street) <u>WALTHAM MA 02451</u> <hr/> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>Morphic Holding, Inc. [MORF]</u> <hr/> 3. Date of Earliest Transaction (Month/Day/Year) <u>03/15/2021</u> <hr/> 4. If Amendment, Date of Original Filed (Month/Day/Year)	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title below) Other (specify below) <u>Chief Scientific Officer</u> <hr/> 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
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Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	03/15/2021		s ⁽¹⁾		2,900	D	\$63.9662 ⁽²⁾	95,458 ⁽³⁾	D	
Common Stock	03/15/2021		s ⁽¹⁾		1,345	D	\$64.8285 ⁽⁴⁾	94,113	D	
Common Stock	03/15/2021		s ⁽¹⁾		1,341	D	\$66.0427 ⁽⁵⁾	92,772	D	
Common Stock	03/15/2021		s ⁽¹⁾		1,693	D	\$66.8594 ⁽⁶⁾	91,079	D	
Common Stock	03/15/2021		s ⁽¹⁾		1,030	D	\$67.8509 ⁽⁷⁾	90,049	D	
Common Stock	03/15/2021		s ⁽¹⁾		200	D	\$69.21	89,849	D	

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			

Explanation of Responses:

- The sales reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person.
- The reported price in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$63.35 to \$64.34 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 footnote.
- Includes 744 shares of Common Stock acquired under the issuer's employee stock purchase plan on February 26, 2021.
- The reported price in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$64.35 to \$65.32 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 footnote.
- The reported price in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$65.40 to \$66.32 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 footnote.
- The reported price in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$66.41 to \$67.27 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 footnote.
- The reported price in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$67.42 to \$68.35 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 footnote.

Remarks:

/s/ Robert Farrell as attorney-in-fact for Bruce Rogers 03/17/2021

** 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).

** 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.