

☐ 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

OMB APPROVAL	
OMB Number:	3235-0287
Estimated average burden hours per response:	0.5

<div>1. Name and Address of Reporting Person*</div> <div><u>Tipirneni Praveen P.</u></div> <div>(Last) (First) (Middle)</div> <div>C/O MORPHIC HOLDING, INC.</div> <div>35 GATEHOUSE DRIVE, A2</div> <div>(Street)</div> <div>WALTHAM MA 02451</div> <div>(City) (State) (Zip)</div>	<div>2. Issuer Name and Ticker or Trading Symbol</div> <div><u>Morphic Holding, Inc.</u> [MORF]</div>	<div>5. Relationship of Reporting Person(s) to Issuer (Check all applicable)</div> <div><input checked="" type="checkbox"/> Director 10% Owner</div> <div><input checked="" type="checkbox"/> Officer (give title below) Other (specify below)</div> <div>President and CEO</div>	
	<div>3. Date of Earliest Transaction (Month/Day/Year)</div> <div>04/25/2023</div>		<div>6. Individual or Joint/Group Filing (Check Applicable Line)</div> <div><input checked="" type="checkbox"/> Form filed by One Reporting Person</div> <div>Form filed by More than One Reporting Person</div>
	<div>4. If Amendment, Date of Original Filed (Month/Day/Year)</div>	<div>Rule 10b5-1(c) Transaction Indication</div> <div><input type="checkbox"/> 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.</div>	

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	04/25/2023		M		25,179	A	\$4.32	39,115 ⁽¹⁾	D	
Common Stock	04/25/2023		s ⁽²⁾		25,179	D	\$53.4043	13,936 ⁽¹⁾	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		Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (right to buy Common Stock)	\$4.32	04/25/2023		M		25,179	⁽³⁾	12/14/2028	Common Stock	25,179	\$0.00	376,371	D	

Explanation of Responses:

1. Includes 395 shares of Common Stock acquired on February 28, 2022, and 862 shares of Common Stock acquired on February 28, 2023 under the Issuer's employee stock purchase plan.
2. The sales reported on this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the holder dated September 16, 2022.
3. This option is fully vested.

Remarks:

/s/ Robert Farrell as attorney-in-fact for Praveen P. Tipirneni 04/27/2023

** 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).

** 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.