

☐ 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

1. Name and Address of Reporting Person* <u>Tipirneni Praveen P.</u>  (Last) (First) (Middle) <u>C/O MORPHIC HOLDING, INC.</u> <u>35 GATEHOUSE DRIVE, A2</u>  (Street) <u>WALTHAM</u> <u>MA</u> <u>02451</u>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>Morphic Holding, Inc. [ MORF ]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  <input checked="" type="checkbox"/> Director 10% Owner  <input checked="" type="checkbox"/> Officer (give title below) Other (specify below)  <u>CEO</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>01/12/2024</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	
	Rule 10b5-1(c) Transaction Indication  <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.	

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	01/13/2024		M		29,500	A	\$0.00 <sup>(1)</sup>	43,436	D	
Common Stock	01/14/2024		M		12,500	A	\$0.00 <sup>(1)</sup>	55,936	D	
Common Stock	01/16/2024		S <sup>(2)</sup>		13,923	D	\$27.4907	42,013	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				
Stock Option (right to buy Common Stock)	\$27.79	01/12/2024		A		206,400		(3)	01/11/2034	Common Stock	206,400	\$0.00	206,400	D	
Restricted Stock Unit	(1)	01/12/2024		A		136,800		(4)	(4)	Common Stock	136,800	\$0.00	136,800	D	
Restricted Stock Unit	(1)	01/13/2024		M			29,500	(5)	(5)	Common Stock	29,500	\$0.00	88,500	D	
Restricted Stock Unit	(1)	01/14/2024		M			12,500	(6)	(6)	Common Stock	12,500	\$0.00	25,000	D	

Explanation of Responses:

1. Each restricted stock unit ("RSU") represents a contingent right to receive 1 share of the issuer's Common Stock upon settlement.
2. The sales reported on this Form 4 represent shares required to be sold by the Reporting Person to cover tax withholding obligations in connection with the vesting of RSUs. These sales are mandated by the Issuer's election under its equity incentive plans to require the satisfaction of a tax withholding obligation to be funded by a "sell to cover" transaction and do not represent discretionary trades by the Reporting Person.
3. The option vests as to 2.0833% of the total shares monthly, beginning February 12, 2024, with 100% of the total shares vested and exercisable on January 12, 2028, subject to the reporting person's provision of service to the issuer on each vesting date.
4. The RSUs vest as to 25% of the total shares on each of January 12, 2025, January 12, 2026, January 12, 2027 and January 12, 2028, subject to the reporting person's provision of service to the issuer on each vesting date.
5. The RSUs vest as to 25% of the total shares on each of January 13, 2024, January 13, 2025, January 13, 2026 and January 13, 2027, subject to the reporting person's provision of service to the issuer on each vesting date.
6. The RSUs vest as to 25% of the total shares on each of January 14, 2023, January 14, 2024, January 14, 2025 and January 14, 2026, subject to the reporting person's provision of service to the issuer on each vesting date.

Remarks:

/s/ Robert Farrell as attorney-in-fact for Praveen P. Tipirneni 01/17/2024

\*\* 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.