

| OMB APPROVAL | |
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

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* <u>Paglia Regina M.</u> | | | 2. Issuer Name and Ticker or Trading Symbol <u>Dicerna Pharmaceuticals Inc [DRNA]</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>Chief Human Resources Officer</u> | | |
| (Last) (First) (Middle) <u>C/O DICERNA PHARMACEUTICALS, INC.</u> <u>75 HAYDEN AVENUE</u> | | | 3. Date of Earliest Transaction (Month/Day/Year) <u>03/01/2021</u> | | | 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 | | |
| (Street) <u>LEXINGTON MA 02421</u> | | | 4. If Amendment, Date of Original Filed (Month/Day/Year) | | | | | |
| (City) (State) (Zip) | | | | | | | | |

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 | 03/01/2021 | | M | | 4,431 | A | \$12.93 | 4,431 | D | |
| Common Stock | 03/01/2021 | | S ⁽¹⁾⁽²⁾ | | 4,075 ⁽¹⁾ | D | \$28.9197 ⁽³⁾ | 356 | D | |
| Common Stock | 03/01/2021 | | S ⁽¹⁾⁽²⁾ | | 356 ⁽¹⁾ | D | \$29.4699 ⁽⁴⁾ | 0 | 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 |
| Employee Stock Option (Right to Buy) | \$12.93 | 03/01/2021 | | M | | 4,431 | | (5) | 02/28/2029 | Common Stock | 4,431 | \$0 | 136,707 | D | |

Explanation of Responses:

- The Reporting Person sold an aggregate of 4,431 shares of Common Stock on March 1, 2021 (the "Shares Sold") as reported in this Form 4. The Shares Sold represent 1.50% of 295,888 shares of Common Stock, which is the number of shares of Common Stock owned by the Reporting Person prior to the Shares Sold transaction reported in this Form 4, as well as shares issuable upon exercise or settlement of vested and unvested options and restricted stock units held by the Reporting Person as of the date of this report.
- The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on December 16, 2020.
- The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$28.39 to \$29.38, inclusive. The Reporting Person undertakes to provide to Dicerna Pharmaceuticals, Inc., any security holder of Dicerna Pharmaceuticals, Inc., 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 ranges set forth in footnote 3 to this Form 4.
- The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$29.46 to \$29.53, inclusive. The Reporting Person undertakes to provide to Dicerna Pharmaceuticals, Inc., any security holder of Dicerna Pharmaceuticals, Inc., 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 ranges set forth in footnote 4 to this Form 4.
- The option vested 25% on the first year anniversary of the vesting start date of February 19, 2019 and the remaining 75% vests in 36 substantially equal monthly installments thereafter, subject in each case to the Reporting Person's continued service with the Issuer through each applicable vesting date.

Remarks:

/s/ Douglas W. Pagan, attorney-in-fact 03/02/2021

** 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.