

| OMB APPROVAL                                 |           |
|--|-----------|
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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 *<br><u>Shacham Sharon</u><br><br>(Last) (First) (Middle)<br><u>C/O KARYOPHARM THERAPEUTICS INC.</u><br><u>85 WELLS AVENUE</u><br><br>(Street)<br><u>NEWTON MA 02459</u><br><br>(City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol<br><u>Karyopharm Therapeutics Inc. [ KPTI ]</u> | 5. Relationship of Reporting Person(s) to Issuer<br>(Check all applicable)<br><br>Director 10% Owner<br><input checked="" type="checkbox"/> Officer (give title below) Other (specify below)<br><u>President &amp; CSO</u> |
|  | 3. Date of Earliest Transaction (Month/Day/Year)<br><u>02/19/2020</u>                       |  |
| 4. If Amendment, Date of Original Filed (Month/Day/Year)   |   |  |

**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                    | 02/19/2020                           |  | S <sup>(1)</sup>               |   | 8,817   | D          | \$16.4819 <sup>(2)</sup> | 756,489   | D  |   |
| Common Stock                    | 02/19/2020                           |  | S <sup>(3)</sup>               |   | 8,817   | D          | \$16.4819 <sup>(4)</sup> | 555,122   | I  | By Spouse   |

**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 |   |  |  |   |  |

**Explanation of Responses:**

- This transaction was a broker-assisted sale of shares to satisfy the payment of withholding tax liability incurred upon the vesting of restricted stock units and does not represent a discretionary trade by the reporting person.
- The sale price of the reporting person's shares represents the weighted average price of all shares sold by a broker on February 19, 2020 on behalf of a group of employees of Karyopharm Therapeutics Inc. to satisfy the payment of withholding tax liability of such employees.
- This transaction was a broker-assisted sale of shares to satisfy the payment of withholding tax liability incurred upon the vesting of restricted stock units and does not represent a discretionary trade by the spouse of the reporting person.
- The sale price of the spouse of the reporting person's shares represents the weighted average price of all shares sold by a broker on February 19, 2020 on behalf of a group of employees of Karyopharm Therapeutics Inc. to satisfy the payment of withholding tax liability of such employees.

**Remarks:**

/s/ Christopher B. Primiano,  
Attorney-in-Fact for Sharon Shacham      02/21/2020

\*\* 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).

\*\* 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.

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