

| 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>Perfetti Riccardo</u> (Last) (First) (Middle) <u>C/O APPLIED THERAPEUTICS, INC.</u> <u>545 5TH AVENUE, SUITE 1400</u> (Street) <u>NEW YORK NY 10017</u> (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol <u>Applied Therapeutics Inc. [APLT]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <p style="text-align:center">Chief Medical Officer</p> |
| | 3. Date of Earliest Transaction (Month/Day/Year) <u>12/14/2021</u> | |
| | 4. If Amendment, Date of Original Filed (Month/Day/Year) | 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 |

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 | 12/14/2021 | | A | | 48,200 ⁽¹⁾ | A | \$0.00 | 48,200 | 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) | \$9.44 | 12/14/2021 | | A | | 32,100 | | (2) | 12/14/2031 | Common Stock | 32,100 | \$0.00 | 32,100 | D | |

Explanation of Responses:

- Consists of compensatory Restricted Stock Units granted under Applied Therapeutics, Inc.'s 2019 Equity Incentive Plan. Each compensatory Restricted Stock Unit represents a contingent right to receive one share of the issuer's common stock. One-fourth (1/4th) of the compensatory Restricted Stock Units shall vest on each of December 14, 2022, December 14, 2023, December 14, 2024 and December 14, 2025, subject to the Reporting Person continuing to provide services through each such date.
- Consists of compensatory options granted under Applied Therapeutics, Inc.'s 2019 Equity Incentive Plan. One-fourth (1/4th) of the shares subject to the compensatory Option shall vest on December 14, 2022, and one thirty-sixth (1/36th) of the remaining shares subject to the compensatory Option shall vest each month thereafter, subject to the Reporting Person continuing to provide services through each such date.

Remarks:

/s/ Shoshana Shendelman as attorney-in-fact 12/16/2021

** 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.