

| 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).
- Form 3 Holdings Reported.
- Form 4 Transactions Reported.

ANNUAL 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* <u>Shendelman Shoshana</u> (Last) (First) (Middle) C/O APPLIED THERAPEUTICS, INC. 545 FIFTH AVENUE, SUITE 1400 (Street) NEW YORK NY 10017 (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) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) President and CEO |
| | 3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2020 | |
| | 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 <input type="checkbox"/> 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 at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|------------|--------|--|--|---|
| | | | | Amount | (A) or (D) | Price | | | |
| Common Stock | 10/02/2020 | | G | 200,000 | D | \$0.00 | 354,285 | D | |
| Common Stock | | | | | | | 1,750,000 | I | See footnote ⁽¹⁾ |
| Common Stock | | | | | | | 1,492,094 | I | See footnote ⁽²⁾ |
| Common Stock | | | | | | | 709,780 | I | See footnote ⁽³⁾ |
| Common Stock | | | | | | | 290,280 | I | See footnote ⁽⁴⁾ |
| Common Stock | | | | | | | 88,397 | I | See footnote ⁽⁵⁾ |

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) |
|--|--|--------------------------------------|--|--------------------------------|--|-----|--|-----------------|---|--|--|---|--|
| | | | | | (A) | (D) | Date Exercisable | Expiration Date | | | | | |

Explanation of Responses:

- Through a grantor retained annuity trust.
- Through a family trust controlled by the reporting person's spouse.
- Through the reporting person's spouse.
- Through a family trust controlled by the reporting person.
- Through Clearpoint Strategy Group LLC of which the reporting person is the sole owner.

Remarks:

/s/ Shoshana Shendelman 02/16/2021

** 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.