

| OMB APPROVAL                                 |           |
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**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

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

|   |  |  |   |  |  |  |  |  |
|---|--|--|---|--|--|--|--|--|
| 1. Name and Address of Reporting Person*<br><u>Schneyer Mark C.</u><br>(Last) (First) (Middle)<br><u>C/O ACADIA PHARMACEUTICALS INC.</u><br><u>12830 EL CAMINO REAL, SUITE 400</u><br>(Street)<br><u>SAN DIEGO CA 92130</u><br>(City) (State) (Zip) |  |  | 2. Issuer Name and Ticker or Trading Symbol<br><u>ACADIA PHARMACEUTICALS INC [</u><br><u>ACAD ]</u> |  |  | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable)<br>Director _____ 10% Owner _____<br>Officer (give title below) _____ Other (specify below) _____<br><input checked="" type="checkbox"/> <u>EVP, Chief Financial Officer</u> |  |  |
|   |  |  | 3. Date of Earliest Transaction (Month/Day/Year)<br><u>04/05/2022</u>                               |  |  | 6. Individual or Joint/Group Filing (Check Applicable Line)<br><input checked="" type="checkbox"/> Form filed by One Reporting Person<br>Form filed by More than One Reporting Person _____  |  |  |
|   |  |  | 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 |   |  |   |

**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 |
| Stock Options (Right to Buy)               | \$25.75  | 04/05/2022                           |  | A                              |   | 72,414   |     | (1)  | 04/05/2032      | Common Stock  | 72,414                                     | \$0.00   | 72,414  | D  |       |
| Restricted Stock Units                     | (2)  | 04/05/2022                           |  | A                              |   | 21,101   |     | (3)  | (3)             | Common Stock  | 21,101                                     | \$0.00   | 21,101  | D  |       |

**Explanation of Responses:**

- 25% of the shares subject to the Stock Option will vest and become exercisable on April 5, 2023. The remaining shares vest and become exercisable in 36 equal monthly installments thereafter.
- Each restricted stock unit represents a contingent right to receive one share of ACADIA common stock.
- The restricted stock units vest in four equal annual installments beginning April 5, 2023.

**Remarks:**

/s/ Austin D. Kim, Attorney-in-Fact 04/07/2022

\*\* 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.