

| 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>Stankovic Srdjan R.</u><br><br>(Last) (First) (Middle)<br><u>C/O ACADIA PHARMACEUTICALS INC.</u><br><u>12830 EL CAMINO REAL, SUITE 400</u><br><br>(Street)<br><u>SAN DIEGO CA 92130</u><br><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<br>(Check all applicable)<br><br>Director 10% Owner<br><input checked="" type="checkbox"/> Officer (give title below) Other (specify below)<br><br><p style="text-align: center;"><b>President</b></p> |
|                                                                                                                                                                                                                                                                    | 3. Date of Earliest Transaction (Month/Day/Year)<br><u>02/04/2021</u>                               |                                                                                                                                                                                                                                                         |

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                    | 02/04/2021                           |                                                    | A <sup>(1)</sup>               |   | 19,231                                                            | A          | \$0.00  | 39,478                                                                                        | D                                                        |                                                       |
| Common Stock                    | 02/04/2021                           |                                                    | S <sup>(2)</sup>               |   | 8,429                                                             | D          | \$50.61 | 31,049                                                                                        | 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)       | \$29.59                                                | 02/04/2021                           |                                                    | A <sup>(3)</sup>               |   | 15,625                                                                                 |     | (3)                                                      | 08/03/2027      | Common Stock                                                                      | 15,625                                     | \$0.00                                                                                             | 15,625                                                    | D                                                      |       |
| Employee Stock Option (Right to Buy)       | \$35.8                                                 | 02/04/2021                           |                                                    | A <sup>(4)</sup>               |   | 21,875                                                                                 |     | (4)                                                      | 09/07/2027      | Common Stock                                                                      | 21,875                                     | \$0.00                                                                                             | 21,875                                                    | D                                                      |       |
| Employee Stock Option (Right to Buy)       | \$21.28                                                | 02/04/2021                           |                                                    | A <sup>(5)</sup>               |   | 11,875                                                                                 |     | (5)                                                      | 10/15/2028      | Common Stock                                                                      | 11,875                                     | \$0.00                                                                                             | 11,875                                                    | D                                                      |       |

Explanation of Responses:

- On April 29, 2019, the reporting person was granted Restricted Stock Units (RSU's) that vest upon the Issuer's satisfaction of certain performance criteria. On February 4, 2021, the Issuer's Compensation Committee determined that certain performance criteria was achieved, resulting in the vesting of the RSU's as to the number of shares reported in column 4 of row 1 above.
- The sales reported in this Form 4 were made to cover the tax obligation that occurred upon the vesting of restricted stock units.
- On August 3, 2017, the reporting person was granted an option to purchase shares of common stock based upon and subject to the achievement of certain performance criteria. On February 4, 2021, the Issuer's Compensation Committee determined that certain performance criteria was achieved, resulting in the vesting of the option as to 15,625 shares.
- On September 7, 2017, the reporting person was granted an option to purchase shares of common stock based upon and subject to the achievement of certain performance criteria. On February 4, 2021, the Issuer's Compensation Committee determined that certain performance criteria was achieved, resulting in the vesting of the option as to 21,875 shares.
- On October 15, 2018, the reporting person was granted an option to purchase shares of common stock based upon and subject to the achievement of certain performance criteria. On February 4, 2021, the Issuer's Compensation Committee determined that certain performance criteria was achieved, resulting in the vesting of the option as to 11,875 shares.

Remarks:

/s/ Austin D. Kim, Attorney-in-Fact 02/08/2021

\*\* 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.