

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

1. Name and Address of Reporting Person* <u>BAKER BROS. ADVISORS LP</u> (Last) (First) (Middle) <u>860 WASHINGTON STREET, 3RD FLOOR</u> (Street) <u>NEW YORK NY 10014</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>ACADIA PHARMACEUTICALS INC [ACAD]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) <u>06/07/2022</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								102,876 ⁽¹⁾	D	
Common Stock								102,876 ⁽²⁾	D	
Common Stock	06/07/2022		A		17,104	A	\$0.00	3,506,613	I	See Footnotes ⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾
Common Stock	06/07/2022		A		17,104	A	\$0.00	38,469,981	I	See Footnotes ⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁷⁾⁽⁸⁾⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾

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	Amount or Number of Shares
Non-Qualified Stock Options (right to buy)	\$18.27	06/07/2022		A		28,736			(12)	06/06/2032	Common Stock	28,736	\$0.00	28,736	I	See Footnotes ⁽⁴⁾⁽⁵⁾⁽⁷⁾⁽⁸⁾⁽¹²⁾

1. Name and Address of Reporting Person*
BAKER BROS. ADVISORS LP
 (Last) (First) (Middle)
860 WASHINGTON STREET, 3RD FLOOR
 (Street)
NEW YORK NY 10014
 (City) (State) (Zip)

1. Name and Address of Reporting Person*
667, L.P.
 (Last) (First) (Middle)
860 WASHINGTON STREET, 3RD FLOOR
 (Street)
NEW YORK NY 10014
 (City) (State) (Zip)

1. Name and Address of Reporting Person*
BAKER JULIAN
 (Last) (First) (Middle)
860 WASHINGTON STREET, 3RD FLOOR
 (City) (State) (Zip)

(Street)	NEW YORK	NY	10014
(City)	(State)	(Zip)	
1. Name and Address of Reporting Person*			
BAKER FELIX			
(Last)	(First)	(Middle)	
860 WASHINGTON STREET, 3RD FLOOR			
(Street)	NEW YORK	NY	10014
(City)	(State)	(Zip)	
1. Name and Address of Reporting Person*			
Baker Bros. Advisors (GP) LLC			
(Last)	(First)	(Middle)	
860 WASHINGTON STREET, 3RD FLOOR			
(Street)	NEW YORK	NY	10014
(City)	(State)	(Zip)	
1. Name and Address of Reporting Person*			
Baker Brothers Life Sciences LP			
(Last)	(First)	(Middle)	
860 WASHINGTON STREET, 3RD FLOOR			
(Street)	NEW YORK	NY	10014
(City)	(State)	(Zip)	

Explanation of Responses:

1. Common stock ("Common Stock") of ACADIA Pharmaceuticals Inc. (the "Issuer") held directly by Felix J. Baker received from in-kind pro rata distributions without consideration.
2. Common Stock held directly by Julian C. Baker received from in-kind pro rata distributions without consideration.
3. Restricted Stock Units (each an "RSU") payable solely in Common Stock granted to each of Julian C. Baker, a managing member of Baker Bros. Advisors (GP) LLC (the "Adviser GP") and Dr. Stephen R. Biggar, a full-time employee of Baker Bros. Advisors LP (the "Adviser") on June 7, 2022, pursuant to the Issuer's 2010 Equity Incentive Plan ("Incentive Plan"). The RSUs fully vest on the earlier of June 7, 2023 or the date of the next annual meeting of the Issuer.
4. Julian C. Baker and Dr. Biggar serve on the board of directors of the Issuer (the "Board") as representatives of Baker Brothers Life Sciences, L.P. ("Life Sciences") and 667, L.P. ("667", and together with Life Sciences, the "Funds"). Pursuant to the policies of the Adviser, Julian C. Baker and Dr. Biggar do not have any right to any of the Issuer's securities issued as part of their service on the Board and the Funds are entitled to receive all of the pecuniary interest in the securities issued. The Funds each own an indirect proportionate pecuniary interest in the RSUs and non-qualified options to purchase Common Stock ("Stock Options").
5. Solely as a result of Felix J. Baker's and Julian C. Baker's ownership interest in (i) the general partners of the Funds and (ii) the Funds, Felix J. Baker and Julian C. Baker may be deemed to have an indirect pecuniary interest in the RSUs, Stock Options, Common Stock received upon vesting of RSUs and Common Stock received upon exercise of Stock Options (i.e. no direct pecuniary interest).
6. After giving effect to the transaction reported herein and as a result of their ownership interest in (i) Baker Biotech Capital, L.P. and (ii) 667, Julian C. Baker and Felix J. Baker each may be deemed to have an indirect pecuniary interest in Common Stock reported in column 5 of Table I directly held by 667, a limited partnership of which the sole general partner is Baker Biotech Capital, L.P., a limited partnership of which the sole general partner is Baker Biotech Capital (GP), LLC, due to their interest in 667 and Baker Biotech Capital, L.P.'s right to receive an allocation of a portion of the profits from 667.
7. The Adviser serves as the investment adviser to the Funds. In connection with the services provided by the Adviser, the Adviser receives an asset-based management fee that does not confer any pecuniary interest in the securities held by the Funds. The Adviser GP is the Adviser's sole general partner. Julian C. Baker and Felix J. Baker are managing members of the Adviser GP. The Adviser has complete and unlimited discretion and authority with respect to the investment and voting power of the securities held by the Funds. The general partners of the Funds relinquished to the Adviser all discretion and authority with respect to the investment and voting power of the securities held by the Funds. The Adviser has voting and dispositive power over the Stock Options, RSUs and any Common Stock received as a result of the exercise of Stock Options or vesting of RSUs.
8. Julian C. Baker, Felix J. Baker, the Adviser GP and the Adviser disclaim beneficial ownership of the securities held directly by the Funds except to the extent of their pecuniary interest therein, and this report shall not be deemed an admission that any of Julian C. Baker, Felix J. Baker, the Adviser GP or the Adviser is a beneficial owner of such securities for purposes of Section 16 or any other purpose.
9. The disclosure of the grant of RSUs reported on this form is the sum of two grants totaling 17,104 shares. The 17,104 shares are reported for each of the Funds as each has an indirect pecuniary interest.
10. Includes beneficial ownership of 18,900 previously issued RSUs payable solely in Common Stock issued to Julian C. Baker and Dr. Biggar in their capacity as directors of the Issuer pursuant to the Incentive Plan of which the Funds may be deemed to own a portion.
11. After giving effect to the transaction reported herein and as a result of their ownership interest in (i) Baker Brothers Life Sciences Capital, L.P. and (ii) Life Sciences, Julian C. Baker and Felix J. Baker each may be deemed to have an indirect pecuniary interest in Common Stock of the Issuer reported in column 5 of Table I directly held by Life Sciences, a limited partnership of which the sole general partner is Baker Brothers Life Sciences Capital, L.P., a limited partnership of which the sole general partner is Baker Brothers Life Sciences Capital (GP), LLC, due to their interest in Life Sciences and Baker Brothers Life Sciences Capital, L.P.'s right to receive an allocation of a portion of the profits from Life Sciences.
12. 14,368 Stock Options exercisable solely into Common Stock were granted under the Incentive Plan to each of Julian C. Baker and Dr. Biggar in their capacity as directors of the Issuer. The Stock Options with a strike price of \$18.27 vest in 4 equal quarterly installments beginning on June 7, 2022, with the final tranche vesting upon the earlier of one year following the date of grant or the next annual meeting date and expire on June 6, 2032.

Remarks:

Julian C. Baker, a managing member of Baker Bros. Advisors (GP) LLC, the sole general partner of Baker Bros. Advisors LP, and Dr. Stephen R. Biggar, a full-time employee of Baker Bros. Advisors LP are directors of ACADIA Pharmaceuticals Inc. (the "Issuer"). For purposes of Section 16 of the Securities Exchange Act of 1934, as amended, the reporting persons are deemed directors by deputization by virtue of their representation on the board of directors of the Issuer.

[By: Baker Bros. Advisors LP](#)
[Name: Scott L. Lessing, Title: 06/09/2022](#)
[President /s/ Scott L. Lessing](#)
[Baker Bros. Advisors LP, Mgmt.](#)
[Co. and Inv. Adviser to 667, L.P.,](#)
[pursuant to authority granted by](#)
[Baker Biotech Capital, L.P., GP 06/09/2022](#)
[to 667, L.P. Name: Scott L.](#)
[Lessing, Title: President /s/ Scott](#)
[L. Lessing](#)
[/s/ Julian C. Baker 06/09/2022](#)
[/s/ Felix J. Baker 06/09/2022](#)
[By: Baker Bros. Advisors \(GP\) 06/09/2022](#)
[LLC, Name: Scott L. Lessing,](#)

Title: President /s/ Scott L. Lessing

Baker Bros. Advisors LP, Mgmt. Co. and Inv. Adviser to BAKER BROTHERS LIFE SCIENCES, L.P., pursuant to authority granted by Baker Brothers Life Sciences Capital, L.P., GP to Baker Brothers Life Sciences, L.P., Name: Scott L. Lessing, Title: President /s/

06/09/2022

** 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.