

OMB APPROVAL	
OMB Number:	3235-0287
Estimated average burden hours per response:	0.5

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) 860 WASHINGTON STREET, 3RD FLOOR (Street) NEW YORK NY 10014 (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) 05/29/2024	
	4. If Amendment, Date of Original Filed (Month/Day/Year) Rule 10b5-1(c) Transaction Indication <input type="checkbox"/> Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.	

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	05/29/2024		A		18,774 ⁽¹⁾	A	\$0	3,642,521	I	See Footnotes ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾
Common Stock	05/29/2024		A		18,774 ⁽¹⁾	A	\$0	39,349,751	I	See Footnotes ⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾⁽⁸⁾
Common Stock								102,876	D ⁽⁹⁾	
Common Stock								102,876	D ⁽¹⁰⁾	

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
Non-Qualified Stock Option (right to buy)	\$14.62 ⁽¹¹⁾	05/29/2024		A		31,918		(11)	05/28/2034	Common Stock	31,918	\$0	31,918	I	See Footnotes ⁽²⁾⁽³⁾⁽⁴⁾⁽⁶⁾⁽⁷⁾
Non-Qualified Stock Option (right to buy)	\$14.62 ⁽¹¹⁾	05/29/2024		A		31,918		(11)	05/28/2034	Common Stock	31,918	\$0	31,918	I	See Footnotes ⁽³⁾⁽⁴⁾⁽⁶⁾⁽⁷⁾⁽⁸⁾

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 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)		
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 JULIAN		
(Last)	(First)	(Middle)
860 WASHINGTON STREET, 3RD FLOOR		
(Street)		
NEW YORK	NY	10014
(City) (State) (Zip)		

Explanation of Responses:

- Includes 9,387 restricted stock units (each, an "RSU") payable solely in common stock ("Common Stock") of Acadia Pharmaceuticals Inc. (the "Issuer") granted by the Issuer 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 May 29, 2024, pursuant to the Issuer's 2024 Equity Incentive Plan ("Incentive Plan"). The RSUs fully vest on the earlier of May 29, 2025 or the date of the next annual meeting of stockholders of the Issuer, subject to Julian C. Baker's and Dr. Biggar's continuous service on the board of directors of the Issuer (the "Board") through the vesting date. Julian C. Baker and Dr. Biggar serve on the Board as representatives of 667, L.P. ("667") and Baker Brothers Life Sciences, L.P. ("Life Sciences", and together with 667, the "Funds") and their affiliates and control persons.
- After giving effect to the transactions 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 and the non-qualified options to purchase Common Stock of the Issuer ("Stock Options") reported in column 9 of Table II held directly by or held for the benefit of 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.
- 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 directly by the Funds or for the benefit of 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 directly by or for the benefit of 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 directly by or for the benefit of the Funds.
- Julian C. Baker, Felix J. Baker, the Adviser GP and the Adviser disclaim beneficial ownership of the securities held directly by or for the benefit of 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.
- Includes beneficial ownership of 24,654 shares of Common Stock issued upon the vesting of RSUs previously issued to each of Julian C. Baker and Dr. Biggar in their capacity as directors of the Issuer pursuant to the Issuer's 2010 Equity Incentive Plan of which the Funds may be deemed to own a portion and 27,500 previously issued shares from the exercise of 27,500 Stock Options that were issued to Dr. Biggar in his capacity as a director of the Issuer, of which the Funds may be deemed to own a portion.
- Pursuant to the policies of the Adviser, Julian C. Baker and Dr. Biggar do not have a right to any of the Issuer's securities issued as compensation for their service on the Board and the Funds are entitled to an indirect proportionate pecuniary interest in such securities. The Funds each own an indirect proportionate pecuniary interest in such securities. Solely as a result of their 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 shares of Common Stock, Stock Options, Common Stock issued upon exercise of Stock Options, RSUs and Common Stock received upon vesting of RSUs (i.e. no direct pecuniary interest) issued as compensation for such Board service.
- Pursuant to the policies of the Adviser, 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.
- After giving effect to the transactions 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 reported in column 5 of Table I and the Stock Options reported in column 9 of Table II held directly by or held for the benefit of 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.
- Common Stock held directly by Felix J. Baker received from in-kind pro rata distributions without consideration.
- Common Stock held directly by Julian C. Baker received from in-kind pro rata distributions without consideration.
- 15,959 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 have a strike price of \$14.62 and vest in 4 equal quarterly installments beginning on May 29, 2024, with the final tranche vesting upon the earlier of the one year anniversary of the date of grant or the date of the next annual meeting of stockholders of the Issuer and expire on May 28, 2034.

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 other than Julian C. Baker and Dr. Biggar are deemed directors by deputation by virtue of their representation on the board of directors of the Issuer.

By: Baker Bros. Advisors LP,
Name: Scott L. Lessing, Title: 05/31/2024
President /s/ Scott L. Lessing
Baker Bros. Advisors LP, Mgmt. 05/31/2024
Co. and Inv. Adviser to 667, L.P.,
pursuant to authority granted by

Baker Biotech Capital, L.P., GP
to 667, L.P. Name: Scott L.
Lessing, Title: President /s/ Scott
L. Lessing

By: Baker Bros. Advisors (GP),
LLC, Name: Scott L. Lessing,
Title: President /s/ Scott L.
Lessing 05/31/2024

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/

/s/ Felix J. Baker 05/31/2024

/s/ Julian C. Baker 05/31/2024

** 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.