UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No. 4)*

Ascendis Pharma A/S

(Name of Issuer)

American Depository Shares representing Ordinary Shares of Ascendis Pharma A/S

(Title of Class of Securities)

04351P101

(CUSIP Number)

December 31, 2016

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

⊠ Rule 13d-1(b)

- \square Rule 13d-1(c)
- \square Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("*Act*") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

ropriate Box if a Member of a Grou	up (See Instructions)
Place of Organization Massac	chusetts
Sole Voting Power	0 shares
Shared Voting Power	5,409,990 shares
Sole Dispositive Power	0 shares
Shared Dispositive Power	5,409,990 shares
unt Beneficially Owned by Each 1 Shares	Reporting Person
gregate Amount in Row (9) Exclu	Ides Certain Shares (See Instructions)
Represented by Amount in Row	(9)
ng Person (See Instructions)	

¹ The reporting person is the beneficial owner of 5,409,990 of the Issuer's American Depository Shares ("ADSs") representing 5,409,990 of the Issuer's ordinary shares, which constitute approximately 16.7% of the Issuer's outstanding ordinary shares. The percentage calculation assumes that there are currently 32,387,201 outstanding ordinary shares of the Issuer, based on the Issuer's Form 6-K as filed with the Securities and Exchange Commission ("SEC") on November 30, 2016.

I.R.S	nes of Reporting Persons. 5. Identification Nos. of above persons (entities only). Peter Kolchinsky
2. Che	ck the Appropriate Box if a Member of a Group (See Instructions)
(a) (b)	
	Use Only
J. SLC	
4. Citiz	zenship or Place of Organization United States
Number of	5. Sole Voting Power 0 shares
Shares Beneficially	6.Shared Voting Power5,409,990 shares
Owned by Each Reporting Person With	7.Sole Dispositive Power0 shares
	8. Shared Dispositive Power 5,409,990 shares
	regate Amount Beneficially Owned by Each Reporting Person 5,409,990 shares
10. Che	ck if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)
	ent of Class Represented by Amount in Row (9) 16.7% ¹
	e of Reporting Person (See Instructions) IN

¹ The reporting person is the beneficial owner of 5,409,990 of the Issuer's American Depository Shares ("ADSs") representing 5,409,990 of the Issuer's ordinary shares, which constitute approximately 16.7% of the Issuer's outstanding ordinary shares. The percentage calculation assumes that there are currently 32,387,201 outstanding ordinary shares of the Issuer, based on the Issuer's Form 6-K as filed with the Securities and Exchange Commission ("SEC") on November 30, 2016.

Item 1.

(a) **Name of Issuer:** Ascendis Pharma A/S (the "Issuer").

(b) Address of the Issuer's Principal Executive Offices: Tuborg Boulevard 5, DK-2900 Hellerup, Denmark.

Item 2.

(a) **Name of Person Filing:** This joint statement on Schedule 13G is being filed by RA Capital Management, LLC ("Capital") and Peter Kolchinsky. Capital and Mr. Kolchinsky are collectively referred to herein as the "Reporting Persons." Capital is the general partner of the RA Capital Healthcare Fund, L.P. (the "Fund") and serves as investment adviser for a separately managed account (the "Account"). Mr. Kolchinsky is the manager of Capital. As the investment adviser to the Fund and the Account, Capital may be deemed a beneficial owner, for purposes of Section 13(d) of the Securities Exchange Act of 1934 (the "Act"), of any securities of the Issuer owned by the Fund or the Account. As the manager of Capital, Mr. Kolchinsky may be deemed a beneficial owner, for purposes of Section 13(d) of the Act, of any securities of the Issuer beneficially owned by Capital. Capital and Mr. Kolchinsky disclaim beneficial ownership of the securities reported in this Schedule 13G Statement (the "Statement") other than for the purpose of determining their obligations under Section 13(d) of the Act, and neither the filing of the Statement nor the filing of this Amendment shall be deemed an admission that either Capital or Mr. Kolchinsky is or was the beneficial owner of such securities for any other purpose.

(b) Address of Principal Business Office: The principal business office of the Reporting Persons is c/o RA Capital Management, LLC, 20 Park Plaza, Suite 1200, Boston, MA 02116.

(c) Citizenship: Capital is a Massachusetts limited liability company. Mr. Kolchinsky is a United States citizen.

(d) Title and Class of Securities: American Depositary Shares ("ADSs") of the Issuer.

(e) **CUSIP Number:** 04351P101

Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

(e) RA Capital Management LLC is a registered investment adviser and is filing this statement in accordance with §240.13d-1(b)(1)(ii)(E);

(g) Peter Kolchinsky is a control person and is filing this statement in accordance with 240.13d-1(b)(1)(i)(G).

Item 4. Ownership:

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount Beneficially Owned: See the response(s) to Item 9 on the attached cover page(s).
- (b) Percent of Class: See the response(s) to Item 11 on the attached cover page(s).
- (c) Number of shares as to which such person has:
 - (i) sole power to vote or to direct the vote: See the response(s) to Item 5 on the attached cover page(s).
 - (ii) shared power to vote or to direct the vote See the response(s) to Item 6 on the attached cover page(s).
 - (iii) sole power to dispose or to direct the disposition of See the response(s) to Item 7 on the attached cover page(s).
 - (iv) shared power to dispose or to direct the disposition of See the response(s) to Item 8 on the attached cover page(s).

Item 5. Ownership of Five Percent or Less of a Class:

Not applicable.

Item 6. Ownership of More than Five Percent on Behalf of Another Person:

Not applicable.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person:

Not applicable.

Item 8. Identification and Classification of Members of the Group:

Not applicable.

Item 9. Notice of Dissolution of Group:

Not applicable.

Item 10. Certification:

By signing below I hereby certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

Exhibits

1 Joint Filing Agreement by and among the Reporting Persons is incorporated herein by reference to Exhibit 1 to the Schedule 13G filed by the Reporting Persons with the Securities and Exchange Commission on May 8, 2015.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

DATE: February 14, 2017

RA CAPITAL MANAGEMENT, LLC

By: /s/ Rajeev Shah Rajeev Shah Authorized Signatory

PETER KOLCHINSKY

/s/ Peter Kolchinsky