
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934

(Amendment No. 5)*

Abivax S.A.

(Name of Issuer)

Ordinary Shares, par value EUR0.01 per share

(Title of Class of Securities)

(CUSIP Number)

**Armance Bordes
7-11, boulevard Haussmann,
Paris, 10, 75009
33 1 76 23 41 09**

**John Partigan Lloyd Spencer
Nixon Peabody LLP, 799 9 Street NW Ste 500
Washington, DC, 20001
202-585-8000**

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

05/07/2026

(Date of Event Which Requires Filing of This Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§ 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box.

The information required on 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).

SCHEDULE 13D

CUSIP No.

1 Name of reporting person
Sofinnova Crossover I SLP
Check the appropriate box if a member of a Group (See Instructions)

2 (a)
 (b)

3 SEC use only
Source of funds (See Instructions)

4 OO

5 Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e)

6 Citizenship or place of organization
FRANCE

7 Sole Voting Power
Number of Shares Beneficially Owned by Each Reporting Person With: 5,499,478.00

8 Shared Voting Power
0.00

9 Sole Dispositive Power
3,377,494.00

10 Shared Dispositive Power
0.00

11 Aggregate amount beneficially owned by each reporting person
5,499,478.00

12 Check if the aggregate amount in Row (11) excludes certain shares (See Instructions)

13 Percent of class represented by amount in Row (11)
6.7 %

14 Type of Reporting Person (See Instructions)
OO

Comment for Type of Reporting Person: Note in relation to Items 7 and 8: Sofinnova Partners SAS, a French corporation ("SP SAS"), the management company of Sofinnova Crossover I SLP ("SC"), may be deemed to have sole voting power, and Antoine Papiernik ("Papiernik"), Cedric Moreau ("Moreau"), Kinam Hong ("Hong"), Joseph Anderson ("Anderson") and Jacques Theurillat ("Theurillat"), the members of the investment committee of SC, may be deemed to have shared power to vote these shares. Note in relation to Items 9 and 10: SP SAS, the management company of SC, may be deemed to have sole power to dispose of these shares, and Papiernik, Moreau, Hong, Anderson and Theurillat, the members of the investment committee of SC, may be deemed to have shared power to dispose of these shares. Note in relation to Items 8, 10, 11 and 13: The Reporting Person beneficially owns 3,377,494 Ordinary Shares (including ordinary shares represented by American depository shares) and has 5,499,478 voting rights related to such shares. The aggregate amount beneficially owned and percent of class reported above are based on the Reporting Person's voting rights and the 82,047,884 voting rights outstanding as of March 31, 2026, as adjusted to reflect the shares issued in the Private Placement (as defined below).

SCHEDULE 13D

CUSIP No.

1 Name of reporting person

Sofinnova Partners SAS

Check the appropriate box if a member of a Group (See Instructions)

2

(a)

(b)

3

SEC use only

Source of funds (See Instructions)

4

OO

Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e)

5

Citizenship or place of organization

6

FRANCE

Sole Voting Power

7

5,499,478.00

Number of
Shares

Shared Voting Power

Beneficially 8

Owned by

0.00

Each

Sole Dispositive Power

Reporting 9

Person

3,377,494.00

With:

Shared Dispositive Power

10

0.00

Aggregate amount beneficially owned by each reporting person

11

5,499,478.00

Check if the aggregate amount in Row (11) excludes certain shares (See Instructions)

12

Percent of class represented by amount in Row (11)

13

6.7 %

Type of Reporting Person (See Instructions)

14

OO

Comment for Type of Reporting Person: Note in relation to Items 7 and 8: SP SAS, the management company of SC, may be deemed to have sole voting power, and Papiernik, Moreau, Hong, Anderson and Theurillat, the members of the investment committee of SC, may be deemed to have shared power to vote these shares. Note in relation to Items 9 and 10: SP SAS, the management company of SC, may be deemed to have sole power to dispose of these shares, and Papiernik, Moreau, Hong, Anderson and Theurillat, the members of the investment committee of SC, may be deemed to have shared power to dispose of these shares. Note in relation to Items 8, 10, 11 and 13: The Reporting Person beneficially owns 3,377,478 Ordinary Shares (including ordinary shares represented by American depositary shares) and has 5,499,478 voting rights related to such shares. The aggregate amount beneficially owned and percent of class reported above are based on the Reporting Person's voting rights and the 82,047,884 voting rights outstanding as of March 31, 2026, as adjusted to reflect the shares issued in the Private Placement (as defined below).

SCHEDULE 13D

CUSIP No.

Name of reporting person

1

Antoine Papiernik

2

Check the appropriate box if a member of a Group (See Instructions)

(a)

(b)

3 SEC use only
Source of funds (See Instructions)

4 OO
Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e)

5
Citizenship or place of organization

6 FRANCE
Sole Voting Power

7 5,499,478.00
Number of Shares Beneficially Owned by Each Reporting Person

8 0.00
Shared Voting Power
Sole Dispositive Power

9 3,377,494.00
With: Shared Dispositive Power

10 0.00
Aggregate amount beneficially owned by each reporting person

11 5,499,478.00
Check if the aggregate amount in Row (11) excludes certain shares (See Instructions)

12
Percent of class represented by amount in Row (11)

13 6.7 %
Type of Reporting Person (See Instructions)

14 IN

Comment for Type of Reporting Person: Note to Items 7 and 8: SP SAS, the management company of SC, may be deemed to have sole voting power, and Papiernik, a member of the investment committee of SC, may be deemed to have shared power to vote these shares. Note to Items 9 and 10: SP SAS, the management company of SC, may be deemed to have sole power to dispose of these shares, and Papiernik, a member of the investment committee of SC, may be deemed to have shared power to dispose of these shares. Note in relation to Items 8, 10, 11 and 13: The Reporting Person beneficially owns 3,377,494 Ordinary Shares (including ordinary shares represented by American depositary shares) and has 5,499,478 voting rights related to such shares. The aggregate amount beneficially owned and percent of class reported above are based on the Reporting Person's voting rights and the 82,047,884 voting rights outstanding as of March 31, 2026, as adjusted to reflect the shares issued in the Private Placement (as defined below).

SCHEDULE 13D

CUSIP No.

1 Name of reporting person
Cedric Moreau
Check the appropriate box if a member of a Group (See Instructions)

2 (a)
 (b)

3 SEC use only
4 Source of funds (See Instructions)

OO

Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e)

5

Citizenship or place of organization

6

FRANCE

Sole Voting Power

7

5,499,478.00

Number of Shares

Shared Voting Power

Beneficially 8

Owned by 0.00

Each Sole Dispositive Power

Reporting 9

Person 3,377,494.00

With: Shared Dispositive Power

10

0.00

Aggregate amount beneficially owned by each reporting person

11

5,499,478.00

Check if the aggregate amount in Row (11) excludes certain shares (See Instructions)

12

Percent of class represented by amount in Row (11)

13

6.7 %

Type of Reporting Person (See Instructions)

14

IN

Comment for Type of Reporting Person: Note to Items 7 and 8: SP SAS, the management company of SC, may be deemed to have sole voting power, and Moreau, a member of the investment committee of SC, may be deemed to have shared power to vote these shares. Note to Items 9 and 10: SP SAS, the management company of SC, may be deemed to have sole power to dispose of these shares, and Moreau, a member of the investment committee of SC, may be deemed to have shared power to dispose of these shares. Note in relation to Items 8, 10, 11 and 13: The Reporting Person beneficially owns 3,377,494 Ordinary Shares (including ordinary shares represented by American depositary shares) and has 5,499,478 voting rights related to such shares. The aggregate amount beneficially owned and percent of class reported above are based on the Reporting Person's voting rights and the 82,047,884 voting rights outstanding as of March 31, 2026, as adjusted to reflect the shares issued in the Private Placement (as defined below).

SCHEDULE 13D

CUSIP No.

Name of reporting person

1

Kinam Hong

Check the appropriate box if a member of a Group (See Instructions)

2

(a)

(b)

3

SEC use only

Source of funds (See Instructions)

4

OO

Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e)

5

6 Citizenship or place of organization

UNITED STATES

Sole Voting Power

7

5,499,478.00

Number of
Shares

Shared Voting Power

Beneficially 8

Owned by

Each

Sole Dispositive Power

Reporting 9

Person

3,377,494.00

With:

Shared Dispositive Power

10

0.00

Aggregate amount beneficially owned by each reporting person

11

5,499,478.00

Check if the aggregate amount in Row (11) excludes certain shares (See Instructions)

12



Percent of class represented by amount in Row (11)

13

6.7 %

Type of Reporting Person (See Instructions)

14

IN

Comment for Type of Reporting Person: Note to Items 7 and 8: SP SAS, the management company of SC, may be deemed to have sole voting power, and Hong, a member of the investment committee of SC, may be deemed to have shared power to vote these shares. Note to Items 9 and 10: SP SAS, the management company of SC, may be deemed to have sole power to dispose of these shares, and Hong, a member of the investment committee of SC, may be deemed to have shared power to dispose of these shares. Note in relation to Items 8, 10, 11 and 13: The Reporting Person beneficially owns 3,377,494 Ordinary Shares (including ordinary shares represented by American depositary shares) and has 5,499,478 voting rights related to such shares. The aggregate amount beneficially owned and percent of class reported above are based on the Reporting Person's voting rights and the 82,047,844 voting rights outstanding as of March 31, 2026, as adjusted to reflect the shares issued in the Private Placement (as defined below).

SCHEDULE 13D

CUSIP No.

Name of reporting person

1

Joseph Anderson

Check the appropriate box if a member of a Group (See Instructions)

2

(a)

(b)

3

SEC use only

Source of funds (See Instructions)

4

OO

Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e)

5



Citizenship or place of organization

6

UNITED KINGDOM

Number of

7 Sole Voting Power

Shares Beneficially Owned by Each Reporting Person With: 5,499,478.00 Shared Voting Power 8 0.00 Sole Dispositive Power 9 3,377,494.00 Shared Dispositive Power 10 0.00

Aggregate amount beneficially owned by each reporting person

5,499,478.00

Check if the aggregate amount in Row (11) excludes certain shares (See Instructions)

Percent of class represented by amount in Row (11)

6.7 %

Type of Reporting Person (See Instructions)

IN

Comment for Type of Reporting Person: Note to Items 7 and 8: SP SAS, the management company of SC, may be deemed to have sole voting power, and Anderson, a member of the investment committee of SC, may be deemed to have shared power to vote these shares. Note to Items 9 and 10: SP SAS, the management company of SC, may be deemed to have sole power to dispose of these shares, and Anderson, a member of the investment committee of SC, may be deemed to have shared power to dispose of these shares. Note in relation to Items 8, 10, 11 and 13: The Reporting Person beneficially owns 3,377,494 Ordinary Shares (including ordinary shares represented by American depositary shares) and has 5,499,478 voting rights related to such shares. The aggregate amount beneficially owned and percent of class reported above are based on the Reporting Person's voting rights and the 82,047,884 voting rights outstanding as of March 31, 2026, as adjusted to reflect the shares issued in the Private Placement (as defined below).

SCHEDULE 13D

CUSIP No.

Name of reporting person

Jacques Theurillat

Check the appropriate box if a member of a Group (See Instructions)

(a)
 (b)

SEC use only

Source of funds (See Instructions)

OO

Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e)

Citizenship or place of organization

SWITZERLAND

Number of Shares Beneficially Owned by Each Reporting Person: 7 Sole Voting Power 5,499,478.00
Owned by Each Reporting Person: 8 Shared Voting Power 0.00

Person With:	Sole Dispositive Power
	9
	3,377,494.00
	Shared Dispositive Power
	10
	0.00
	Aggregate amount beneficially owned by each reporting person
11	5,499,478.00
	Check if the aggregate amount in Row (11) excludes certain shares (See Instructions)
12	<input type="checkbox"/>
	Percent of class represented by amount in Row (11)
13	6.7 %
	Type of Reporting Person (See Instructions)
14	IN

Comment for Type of Reporting Person: Note to Items 7 and 8: SP SAS, the management company of SC, may be deemed to have sole voting power, and Theurillat, a member of the investment committee of SC, may be deemed to have shared power to vote these shares. Note to Items 9 and 10: SP SAS, the management company of SC, may be deemed to have sole power to dispose of these shares, and Theurillat, a member of the investment committee of SC, may be deemed to have shared power to dispose of these shares. Note in relation to Items 8, 10, 11 and 13: The Reporting Person beneficially owns 3,377,494 Ordinary Shares (including ordinary shares represented by American depositary shares) and has 5,499,478 voting rights related to such shares. The aggregate amount beneficially owned and percent of class reported above are based on the Reporting Person's voting rights and the 82,047,884 voting rights outstanding as of March 31, 2026, as adjusted to reflect the shares issued in the Private Placement (as defined below).

SCHEDULE 13D

Item 1. Security and Issuer

Title of Class of Securities:

(a) Ordinary Shares, par value EUR0.01 per share

Name of Issuer:

(b) Abivax S.A.

Address of Issuer's Principal Executive Offices:

(c) 7-11, boulevard Haussmann, Paris, FRANCE , 75009.

Item 1 Comment: Introductory Statement: This Amendment No. 5 (this "Amendment"), being filed by Sofinnova Crossover I SLP ("SC"), Sofinnova Partners SAS, a French corporation ("SP SAS"), Antoine Papiernik ("Papiernik"), Cedric Moreau ("Moreau"), Kinam Hong ("Hong"), Joseph Anderson ("Anderson") and Jacques Theurillat ("Theurillat") the members of the investment committee of SC (collectively, the "Listed Persons" and together with SC and SP SAS, the "Reporting Persons"), amends and supplements the Schedule 13D filed with the Securities and Exchange Commission (the "SEC") on October 30, 2023, as amended by Amendment No. 1, filed with the SEC on February 14, 2025, as further amended by Amendment No. 2, filed with the SEC on July 31, 2025, as amended by Amendment No. 3, filed with the SEC on October 30, 2025, and as further amended by Amendment No. 4, filed with the SEC on January 14, 2026 (collectively, as amended, the "Schedule 13D"). This Schedule 13D relates to the Ordinary Shares, par value EUR0.01 per share (the "Ordinary Shares"), including ordinary shares represented by American Depositary Shares ("ADS"), of Abivax SA, a societe anonyme incorporated under the laws of the French Republic (the "Issuer"). Except as specifically provided herein, this Amendment No. 5 does not modify any of the information previously reported in the Schedule 13D. Capitalized terms used herein shall have the meanings ascribed to them in the Schedule 13D.

Item 2. Identity and Background

(d) During the last five years, none of the Reporting Persons has been convicted in any criminal proceeding (excluding traffic violations or similar misdemeanors).

(e) During the last five years, none of the Reporting Persons has been a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of such proceeding was or is subject to a judgment, decree or final order enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities laws or finding any violation with respect to such laws.

- Item 3. Source and Amount of Funds or Other Consideration
The 42,755 ADSs were acquired in exchange for royalty certificates held by SC pursuant to the Purchase Agreement, dated May 4, 2026 (as further defined below).
- Item 4. Purpose of Transaction
Item 4 of the Schedule 13D is hereby amended and supplemented as follows: On May 4, 2026, SC, among various other shareholders, entered into a Purchase Agreement with the Issuer to repurchase royalty certificates issued to SC, and the other shareholders, on September 7, 2022. The Issuer repurchased the royalty certificates in full by paying an aggregate consideration of \$90.0 million, \$45.0 million of which was paid in cash and \$45.0 million was paid in shares through the issuance of 403,347 ordinary shares, including in the form of ADS in a private placement (the "Private Placement"). In the Private Placement, SC received 42,755 ADSs. On May 7, 2026, the Issuer registered the offering and resale of the ADSs. In addition to the Private Placement, Mr. Hong no longer serves as a member of the Board of Directors of the Issuer and no longer has influence over the corporate activities of the Issuer. Mr. Hong is no longer entitled to receive cash attendance fees. All of the Ordinary Shares that are held of record by the Reporting Persons as reported herein were acquired for investment purposes. The Reporting Persons retain the right to change their investment intent, from time to time to acquire additional Ordinary Shares or other securities of the Issuer, or to sell or otherwise dispose of all or part of the Ordinary Shares or other securities of the Issuer, if any, beneficially owned by them, in any manner permitted by law. The Reporting Persons may engage from time to time in ordinary course transactions with financial institutions with respect to the securities described herein. Except as set forth above, none of the Reporting Persons currently has any plans or proposals which would be related to or would result in any of the matters described in Items 4(a)-(j) of the Instructions to Schedule 13D. However, as part of the ongoing evaluation of investment and investment alternatives, the Reporting Persons may consider such matters and, subject to applicable law, may formulate a plan with respect to such matters, and, from time to time, may hold discussions with or make formal proposals to management or the board of directors of the Issuer or other third parties regarding such matters.
- Item 5. Interest in Securities of the Issuer
Item 5(a) of the Schedule 13D is hereby amended and supplemented as follows: As of May 11, 2026, SC held directly 3,377,494 Ordinary Shares representing approximately 4.3% of the Issuer's outstanding Ordinary Shares and 5,499,478 voting rights representing approximately 6.7% of the Issuer's outstanding voting rights. None of the other Reporting Persons hold any Ordinary Shares or ADSs directly. SP SAS is the management company of SC and may be deemed to have shared voting and investment control over the Ordinary Shares and ADSs held by SC. Each of Antoine Papiernik, Cedric Moreau, Kinam Hong, Joseph Anderson and Jacques Theurillat are the members of the investment committee of SC and may be deemed to have shared voting and investment control over the Ordinary Shares and ADSs held by SC. Each of such individuals disclaims beneficial ownership of such Ordinary Shares and ADSs except to the extent of their pecuniary interest therein. The ownership percentages are based upon 79,694,535 of the Issuer's Ordinary Shares outstanding as of March 31, 2026, as adjusted to reflect the shares issued in the Private Placement. The voting percentages are based upon 82,047,884 voting rights outstanding as of March 31, 2026, as adjusted to reflect the shares issued in the Private Placement.
- (a)
- (b) Item 5(b) of the Schedule 13D is hereby amended and supplemented as follows: See the information contained on the cover pages of this Amendment, which is incorporated herein by reference.
- (c) Item 5(c) of the Schedule 13D is hereby amended and supplemented as follows: Except as disclosed herein, there have been no other reportable transactions with respect to the Ordinary Shares or ADSs of the Issuer within the last 60 days by the Reporting Persons.
- Item 6. Contracts, Arrangements, Understandings or Relationships With Respect to Securities of the Issuer
On May 4, 2026, SC entered into a Purchase Agreement with Issuer to repurchase royalty certificates issued to SC, among other shareholders, on September 7, 2022, in exchange for 42,755 ADSs. Pursuant to the Purchase Agreement, the Issuer agreed to register the new ADSs for resale. The description of the Purchase Agreement herein is not complete and is qualified in its entirety by reference to the full text of the Purchase Agreement, which is filed herewith as Exhibit 99.2 and incorporated herein by reference. Kinam Hong, a member of the investment committee of SC, is no longer a member of the Issuer's Board of Directors.
- Item 7. Material to be Filed as Exhibits.
EX 99.1 - Agreement regarding filing of joint Schedule 13D (incorporated by reference from Exhibit 99.1 to Schedule 13D filed by the Reporting Persons on October 30, 2023) EX 99.2 - Purchase Agreement, dated May 4, 2026, by and between the Issuer and the Selling Shareholders (listed therein) (incorporated by reference from Exhibit 10.1 to Form 6-K filed by the Issuer on May 7, 2026).

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.

Sofinnova Crossover I SLP

Signature: /s/ Antoine Papiernik

Name/Title: Managing Partner

Date: 05/11/2026

Sofinnova Partners SAS

Signature: /s/ Antoine Papiernik
Name/Title: Managing Partner
Date: 05/11/2026

Antoine Papiernik

Signature: /s/ Antoine Papiernik
Name/Title: Antoine Papiernik
Date: 05/11/2026

Cedric Moreau

Signature: /s/ Cedric Moreau
Name/Title: Cedric Moreau
Date: 05/11/2026

Kinam Hong

Signature: /s/ Kinam Hong
Name/Title: Kinam Hong
Date: 05/11/2026

Joseph Anderson

Signature: /s/ Joseph Anderson
Name/Title: Joseph Anderson
Date: 05/11/2026

Jacques Theurillat

Signature: /s/ Jacques Theurillat
Name/Title: Jacques Theurillat
Date: 05/11/2026