SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934

(Amendment No. 4)*

AnaptysBio, Inc.

(Name of Issuer)

Common Stock

(Title of Class of Securities)

(CUSIP Number)

Anthony J. Caldwell, Esq.
Shartsis Friese LLP, 425 Market Street, 11th Floor
San Francisco, CA, 94105
(415) 421-6500

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

11/16/2026

(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 EcoR1 Capital, LLC
2	Check the appropriate box if a member of a Group (See Instructions)

		☑ (a) ☐ (b)
3		SEC use only
4		Source of funds (See Instructions) AF
5		Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) ☐
6		Citizenship or place of organization DELAWARE
Number of Shares Beneficially Owned by Each Reporting Person With:	7	Sole Voting Power 0.00
	8	Shared Voting Power 8,254,674.00
	9	Sole Dispositive Power 0.00
	10	Shared Dispositive Power 8,254,674.00
11		Aggregate amount beneficially owned by each reporting person 8,254,674.00
12		Check if the aggregate amount in Row (11) excludes certain shares (See Instructions) ☐
13		Percent of class represented by amount in Row (11) 27.8 %
14		Type of Reporting Person (See Instructions) CO, IA

Comment for Type of Reporting Person: Percentage calculated based on 29,729,847 shares of Common Stock outstanding as of November 9, 2026, as reported in the Form 10-Q filed by the Issuer for the quarter ended September 30, 2026.

SCHEDULE 13D

CUSIP No.

1		Name of reporting person Oleg Nodelman
2		Check the appropriate box if a member of a Group (See Instructions) ☑ (a) ☐ (b)
3		SEC use only
4		Source of funds (See Instructions) AF
5		Check if disclosure of legal proceedings is required pursuant to Items 2(d) or 2(e) ☐
6		Citizenship or place of organization

UNITED STATES

Number of Shares Beneficially Owned by Each Reporting Person With:

7 Sole Voting Power
0.00

8 Shared Voting Power
8,254,674.00

9 Sole Dispositive Power
0.00

10 Shared Dispositive Power
8,254,674.00

11 Aggregate amount beneficially owned by each reporting person
8,254,674.00

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

13 Percent of class represented by amount in Row (11)
27.8 %

14 Type of Reporting Person (See Instructions)
IN, HC

Comment for Type of Reporting Person: Percentage calculated based on 29,729,847 shares of Common Stock outstanding as of November 9, 2026, as reported in the Form 10-Q filed by the Issuer for the quarter ended September 30, 2026.

SCHEDULE 13D

CUSIP No.

1 Name of reporting person
EcoR1 Capital Fund Qualified, L.P.

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

3 SEC use only

4 Source of funds (See Instructions)
WC

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

6 Citizenship or place of organization
DELAWARE

Number of Shares Beneficially Owned by Each Reporting Person With:

7 Sole Voting Power
0.00

8 Shared Voting Power
7,642,937.00

9 Sole Dispositive Power
0.00

10 Shared Dispositive Power

7,642,937.00

Aggregate amount beneficially owned by each reporting person

11

7,642,937.00

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

12

☐

Percent of class represented by amount in Row (11)

13

25.7 %

Type of Reporting Person (See Instructions)

14

PN

Comment for Type of Reporting Person: Percentage calculated based on 29,729,847 shares of Common Stock outstanding as of November 9, 2026, as reported in the Form 10-Q filed by the Issuer for the quarter ended September 30, 2026.

SCHEDULE 13D

Item 1. Security and Issuer

(a) Title of Class of Securities:

Common Stock

(b) Name of Issuer:

AnaptysBio, Inc.

(c) Address of Issuer's Principal Executive Offices:

10770 WATERIDGE CIRCLE, SUITE 210, SAN DIEGO, CALIFORNIA , 92121.

Item 2. Identity and Background

(a) The reporting persons are: EcoR1 Capital, LLC, a Delaware limited liability company ("EcoR1") EcoR1 Capital Fund Qualified, L.P., a Delaware limited partnership ("Qualified Fund") Oleg Nodelman Qualified Fund is filing this statement jointly with the other reporting persons, but not as a member of a group, and it expressly disclaims membership in a group. In addition, the filing of this Schedule 13D on behalf of Qualified Fund should not be construed as an admission that it is, and it disclaims that it is, a beneficial owner, as defined in Rule 13d-3 under the Act, of any securities covered by this Schedule 13D. Each reporting person also disclaims beneficial ownership of the securities reported herein except to the extent of that person's pecuniary interest therein.

(b) 357 Tehama Street #3, San Francisco, CA 94103

(c) EcoR1 is the investment adviser to and the general partner of investment funds, including Qualified Fund (collectively, the "Funds"). Mr. Nodelman is the manager and control person of EcoR1.

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

(e) During the last five years, none of the reporting persons was 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.

(f) For citizenship of the reporting persons, see Item 6 of each reporting person's cover page.

Item 3. Source and Amount of Funds or Other Consideration

The Funds purchased 8,254,674 shares of Common Stock for an aggregate purchase price of $154,747,392.28. Qualified Fund purchased 7,642,937 of those shares for an aggregate purchase price of $142,828,114.62. These purchases were made from the Funds' working capital.

Item 4. Purpose of Transaction

Oleg Nodelman, the manager of EcoR1, is a member of the Issuer's board of directors. The reporting persons acquired securities of the Issuer for investment purposes based on their belief that the Issuer's securities represented an attractive investment opportunity. The reporting persons will routinely monitor the Issuer regarding a wide variety of factors that affect their investment considerations, including, current and anticipated future trading prices of the Common Stock and other securities, the Issuer's operations, assets, prospects, financial position, and business development, Issuer's management, Issuer-related competitive and strategic matters, general economic, financial market and industry conditions, and other investment considerations. Depending on their evaluation of various factors, the reporting persons may take such actions regarding their holdings of the Issuer's securities as they deem

appropriate in light of circumstances existing from time to time. Such actions may include purchasing additional Common Stock in the open market, through privately negotiated transactions with third parties or otherwise, and selling at any time, in the open market, through privately negotiated transactions with third parties or otherwise, all or part of the Common Stock or other securities that they now own or hereafter acquire. The reporting persons also may from time to time enter into or unwind hedging or other derivative transactions with respect to the Common Stock or pledge their interests in the Common Stock and other securities to obtain liquidity. In addition, from time to time the reporting persons and their representatives and advisers may communicate with other stockholders, industry participants and other interested parties about the Issuer. The reporting persons have no present plan or proposal that relates to or would result in any of the actions specified in clauses (a) through (j) of Item 4 of Schedule 13D. However, as noted above, Mr. Nodelman serves on the Issuer's board of directors, and the reporting persons may recommend action to the Issuer's management, board of directors and stockholders. Any such actions could involve one or more of the events referred to in clauses (a) through (j) of Item 4 of Schedule 13D, including, potentially, one or more mergers, consolidations, sales or acquisitions of assets, changes in control, issuances, purchases, dispositions or pledges of securities or other changes in capitalization.

Item 5. Interest in Securities of the Issuer

(a) Aggregate number of shares beneficially owned by the reporting persons: EcoR1: 8,254,674 Oleg Nodelman: 8,254,674 Qualified Fund: 7,642,937 Aggregate percentage of the class of Common Stock beneficially owned by the reporting persons: EcoR1: 27.8% Oleg Nodelman: 27.8% Qualified Fund: 25.7%

(b) (i) Sole power to vote or to direct the vote: EcoR1: 0 Oleg Nodelman: 0 Qualified Fund: 0 (ii) Shared power to vote or to direct the vote: EcoR1: 8,254,674 Oleg Nodelman: 8,254,674 Qualified Fund: 7,642,937 (iii) Sole power to dispose or to direct the disposition of: EcoR1: 0 Oleg Nodelman: 0 Qualified Fund: 0 (iv) Shared power to dispose or to direct the disposition of: EcoR1: 8,254,674 Oleg Nodelman: 8,254,674 Qualified Fund: 7,642,937

(c) In the 60 days preceding the date of this Schedule 13D, the reporting persons engaged in the transactions in the Issuer's Common Stock set forth in Exhibit 99.2 hereto.

(d) Not applicable.

(e) Not applicable.

Item 6. Contracts, Arrangements, Understandings or Relationships With Respect to Securities of the Issuer

EcoR1 is the investment adviser to its clients pursuant to investment management agreements or limited partnership agreements providing to EcoR1 the authority, among other things, to invest the funds of such clients in the Issuer's Common Stock, to vote and dispose of the Common Stock and to file this statement on behalf of such clients. Pursuant to such limited partnership agreements, EcoR1 is entitled to allocations based on assets under management and realized and unrealized gains. Pursuant to such investment management agreements, EcoR1 is entitled to fees based on assets under management and realized and unrealized gains.

Item 7. Material to be Filed as Exhibits.

Exhibit 99.1 Agreement Regarding Joint Filing of Statement on Schedule 13D or 13G. Exhibit 99.2 Transactions in the Past 60 Days

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.

EcoR1 Capital, LLC

Signature: /s/ Oleg Nodelman
Name/Title: Manager
Date: 11/18/2026

Oleg Nodelman

Signature: /s/ Oleg Nodelman
Name/Title: Reporting person
Date: 11/18/2026

EcoR1 Capital Fund Qualified, L.P.

Signature: /s/ Oleg Nodelman
Name/Title: Manager of the General Partner, EcoR1 Capital, LLC
Date: 11/18/2026

EXHIBIT 99.1

AGREEMENT REGARDING JOINT FILING
OF STATEMENT ON SCHEDULE 13D OR 13G

The undersigned agree to file jointly with the Securities and Exchange Commission (the "SEC") any and all statements on Schedule 13D or Schedule 13G or Forms 3, 4 or 5(and any amendments or supplements thereto) required under section 13(d) and 16(a) of the Securities Exchange Act of 1934, as amended, in connection with purchases by the undersigned of the securities of any issuer. For that purpose, the undersigned hereby constitute and appoint EcoR1 Capital, LLC, a Delaware limited liability company, as their true and lawful agent and attorney-in-fact, with full power and authority for and on behalf of the undersigned to prepare or cause to be prepared, sign, file with the SEC and furnish to any other person all certificates, instruments, agreements and documents necessary to comply with section 13(d) and section 16(a) of the Securities Exchange Act of 1934, as amended, in connection with said purchases, and to do and perform every act necessary and proper to be done incident to the exercise of the foregoing power, as fully as the undersigned might or could do if personally present.

Dated: November 18, 2026

ECOR1 CAPITAL, LLC

By: /s/ *Oleg Nodelman*
Oleg Nodelman
Manager

ECOR1 CAPITAL FUND QUALIFIED, L.P.

By: EcoR1 Capital, LLC,
General Partner

By: /s/ *Oleg Nodelman*
Oleg Nodelman
Manager

/s/ *Oleg Nodelman*
Oleg Nodelman

EXHIBIT 99.2

TRANSACTIONS IN THE PAST 60 DAYS

The reporting persons engaged in the following open market transactions in the Issuer's Common Stock since the date on which the reporting persons filed their prior Schedule 13D.

Date	Purchase or Sale	Number of Shares	Price per Share
11/16/2026	Purchase	84,120	$45.6624
11/17/2026	Purchase	152,367[1]	$45.6553
11/18/2026	Purchase	138,093[2]	$46.5419

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[1] EcoR1 Capital Fund Qualified L.P. purchased 113,048 of these shares.

[2] EcoR1 Capital Fund Qualified L.P. purchased 127,917 of these shares.