
SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13D/A

Under the Securities Exchange Act of 1934
(Amendment No. 3)*

Inozyme Pharma, Inc.

(Name of Issuer)

Common Stock, par value \$0.0001
(Title of Class of Securities)

45790W108
(CUSIP Number)

Robert Hopfner
Pivotal bioVenture Partners Fund I U.G.P. Ltd
501 2nd Street, Suite 200
San Francisco, CA 94107
(415) 697-1002

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

August 1, 2023
(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.

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Section 240.13d-7 for other parties to whom copies are to be sent.

* 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 disclosures provided in a prior cover page.

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, as amended ("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).

| | | |
|--|---|---------------------------------------|
| 1. | Names of Reporting Persons. Pivotal bioVenture Partners Fund I, L.P. | |
| 2. | Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> | |
| 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) <input type="checkbox"/> | |
| 6. | Citizenship or Place of Organization Cayman Islands | |
| Number of Shares Beneficially Owned by Each Reporting Person With | 7. | Sole Voting Power 0 |
| | 8. | Shared Voting Power 2,923,110 |
| | 9. | Sole Dispositive Power 0 |
| | 10. | Shared Dispositive Power 2,923,110 |
| 11. | Aggregate Amount Beneficially Owned by Each Reporting Person 2,923,110 | |
| 12. | Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/> | |
| 13. | Percent of Class Represented by Amount in Row (11) 6.2% | |
| 14. | Type of Reporting Person (See Instructions) PN | |

| | | |
|--|---|---------------------------------------|
| 1. | Names of Reporting Persons. Pivotal bioVenture Partners Fund II, L.P. | |
| 2. | Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> | |
| 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) <input type="checkbox"/> | |
| 6. | Citizenship or Place of Organization Cayman Islands | |
| Number of Shares Beneficially Owned by Each Reporting Person With | 7. | Sole Voting Power 0 |
| | 8. | Shared Voting Power 1,571,741 |
| | 9. | Sole Dispositive Power 0 |
| | 10. | Shared Dispositive Power 1,571,741 |
| 11. | Aggregate Amount Beneficially Owned by Each Reporting Person 1,571,741 | |
| 12. | Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/> | |
| 13. | Percent of Class Represented by Amount in Row (11) 3.3% | |
| 14. | Type of Reporting Person (See Instructions) PN | |

| | | |
|--|---|---------------------------------------|
| 1. | Names of Reporting Persons. Pivotal bioVenture Partners Fund II G.P. Ltd | |
| 2. | Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> | |
| 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) <input type="checkbox"/> | |
| 6. | Citizenship or Place of Organization Cayman Islands | |
| Number of Shares Beneficially Owned by Each Reporting Person With | 7. | Sole Voting Power 0 |
| | 8. | Shared Voting Power 1,571,741 |
| | 9. | Sole Dispositive Power 0 |
| | 10. | Shared Dispositive Power 1,571,741 |
| 11. | Aggregate Amount Beneficially Owned by Each Reporting Person 1,571,741 | |
| 12. | Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/> | |
| 13. | Percent of Class Represented by Amount in Row (11) 3.3% | |
| 14. | Type of Reporting Person (See Instructions) PN | |

| | | |
|--|---|---------------------------------------|
| 1. | Names of Reporting Persons. Pivotal bioVenture Partners Fund I G.P., L.P. | |
| 2. | Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> | |
| 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) <input type="checkbox"/> | |
| 6. | Citizenship or Place of Organization Cayman Islands | |
| Number of Shares Beneficially Owned by Each Reporting Person With | 7. | Sole Voting Power 0 |
| | 8. | Shared Voting Power 2,923,110 |
| | 9. | Sole Dispositive Power 0 |
| | 10. | Shared Dispositive Power 2,923,110 |
| 11. | Aggregate Amount Beneficially Owned by Each Reporting Person 2,923,110 | |
| 12. | Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/> | |
| 13. | Percent of Class Represented by Amount in Row (11) 6.2% | |
| 14. | Type of Reporting Person (See Instructions) PN | |

| | | |
|--|---|---------------------------------------|
| 1. | Names of Reporting Persons. Pivotal bioVenture Partners Fund I U.G.P. Ltd | |
| 2. | Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> | |
| 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) <input type="checkbox"/> | |
| 6. | Citizenship or Place of Organization Cayman Islands | |
| Number of Shares Beneficially Owned by Each Reporting Person With | 7. | Sole Voting Power 0 |
| | 8. | Shared Voting Power 2,923,110 |
| | 9. | Sole Dispositive Power 0 |
| | 10. | Shared Dispositive Power 2,923,110 |
| 11. | Aggregate Amount Beneficially Owned by Each Reporting Person 2,923,110 | |
| 12. | Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/> | |
| 13. | Percent of Class Represented by Amount in Row (11) 6.2% | |
| 14. | Type of Reporting Person (See Instructions) CO | |

| | | |
|--|---|---------------------------------------|
| 1. | Names of Reporting Persons. Pivotal Partners Ltd | |
| 2. | Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> | |
| 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) <input type="checkbox"/> | |
| 6. | Citizenship or Place of Organization Cayman Islands | |
| Number of Shares Beneficially Owned by Each Reporting Person With | 7. | Sole Voting Power 0 |
| | 8. | Shared Voting Power 4,494,851 |
| | 9. | Sole Dispositive Power 0 |
| | 10. | Shared Dispositive Power 4,494,851 |
| 11. | Aggregate Amount Beneficially Owned by Each Reporting Person 4,494,851 | |
| 12. | Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/> | |
| 13. | Percent of Class Represented by Amount in Row (11) 9.5% | |
| 14. | Type of Reporting Person (See Instructions) CO | |

| | | |
|--|---|---------------------------------------|
| 1. | Names of Reporting Persons. Pivotal Life Sciences Holdings Limited | |
| 2. | Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> | |
| 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) <input type="checkbox"/> | |
| 6. | Citizenship or Place of Organization Cayman Islands | |
| Number of Shares Beneficially Owned by Each Reporting Person With | 7. | Sole Voting Power 0 |
| | 8. | Shared Voting Power 4,494,851 |
| | 9. | Sole Dispositive Power 0 |
| | 10. | Shared Dispositive Power 4,494,851 |
| 11. | Aggregate Amount Beneficially Owned by Each Reporting Person 4,494,851 | |
| 12. | Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/> | |
| 13. | Percent of Class Represented by Amount in Row (11) 9.5% | |
| 14. | Type of Reporting Person (See Instructions) CO | |

| | | |
|--|---|---------------------------------------|
| 1. | Names of Reporting Persons. Nan Fung Life Sciences Holdings Limited | |
| 2. | Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> | |
| 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) <input type="checkbox"/> | |
| 6. | Citizenship or Place of Organization British Virgin Islands | |
| Number of Shares Beneficially Owned by Each Reporting Person With | 7. | Sole Voting Power 0 |
| | 8. | Shared Voting Power 4,494,851 |
| | 9. | Sole Dispositive Power 0 |
| | 10. | Shared Dispositive Power 4,494,851 |
| 11. | Aggregate Amount Beneficially Owned by Each Reporting Person 4,494,851 | |
| 12. | Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/> | |
| 13. | Percent of Class Represented by Amount in Row (11) 9.5% | |
| 14. | Type of Reporting Person (See Instructions) CO | |

| | | |
|--|---|---------------------------------------|
| 1. | Names of Reporting Persons. NF Investment Holdings Limited | |
| 2. | Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> | |
| 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) <input type="checkbox"/> | |
| 6. | Citizenship or Place of Organization British Virgin Islands | |
| Number of Shares Beneficially Owned by Each Reporting Person With | 7. | Sole Voting Power 0 |
| | 8. | Shared Voting Power 4,494,851 |
| | 9. | Sole Dispositive Power 0 |
| | 10. | Shared Dispositive Power 4,494,851 |
| 11. | Aggregate Amount Beneficially Owned by Each Reporting Person 4,494,851 | |
| 12. | Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/> | |
| 13. | Percent of Class Represented by Amount in Row (11) 9.5% | |
| 14. | Type of Reporting Person (See Instructions) CO | |

| | | |
|--|---|---------------------------------------|
| 1. | Names of Reporting Persons. Nan Fung Group Holdings Limited | |
| 2. | Check the Appropriate Box if a Member of a Group (See Instructions) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/> | |
| 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) <input type="checkbox"/> | |
| 6. | Citizenship or Place of Organization British Virgin Islands | |
| Number of Shares Beneficially Owned by Each Reporting Person With | 7. | Sole Voting Power 0 |
| | 8. | Shared Voting Power 4,494,851 |
| | 9. | Sole Dispositive Power 0 |
| | 10. | Shared Dispositive Power 4,494,851 |
| 11. | Aggregate Amount Beneficially Owned by Each Reporting Person 4,494,851 | |
| 12. | Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) <input type="checkbox"/> | |
| 13. | Percent of Class Represented by Amount in Row (11) 9.5% | |
| 14. | Type of Reporting Person (See Instructions) CO | |

Item 3. Source and Amount of Funds or Other Consideration

Item 3 is amended and supplemented as follows:

On August 1, 2023, Pivotal and Pivotal II purchased an aggregate of 833,333 shares of Common Stock in connection with a secondary offering conducted by the Issuer for an aggregate purchase price of \$3,999,998.

Item 5. Interest in Securities of the Issuer

Item 5 is amended and supplemented as follows:

- (a) The information set forth in rows 11 and 13 of the cover pages to this Schedule 13D is incorporated by reference. The percentage set forth in row 13 is based on 47,319,480 outstanding shares of Common Stock, as reported by the Issuer in its Prospectus Supplement filed with the Securities and Exchange Commission on July 28, 2023.
- (c) On August 1, 2023, Pivotal and Pivotal II purchased an aggregate of 833,333 shares of Common Stock in connection with a secondary offering conducted by the Issuer. The shares of Common Stock were purchased for \$4.80 per share and an aggregate purchase price of \$3,999,998.

SIGNATURES

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.

Dated: August 7, 2023

PIVOTAL BIOVENTURE PARTNERS FUND I, L.P.

By: **PIVOTAL BIOVENTURE PARTNERS FUND I
G.P., L.P.**

Its General Partner,

By: **PIVOTAL BIOVENTURE PARTNERS FUND I
U.G.P. LTD**

Its General Partner,

By: /s/ Robert Hopfner

Robert Hopfner

Authorized Signatory

PIVOTAL BIOVENTURE PARTNERS FUND II, L.P.

By: **PIVOTAL BIOVENTURE PARTNERS FUND II
G.P. LTD**

Its General Partner,

By: /s/ Peter Tuxen Bisgaard

Peter Tuxen Bisgaard

Director

**PIVOTAL BIOVENTURE PARTNERS FUND II G.P.
LTD**

By: /s/ Peter Tuxen Bisgaard

Peter Tuxen Bisgaard

Director

**PIVOTAL BIOVENTURE PARTNERS FUND I G.P.,
L.P.**

By: **PIVOTAL BIOVENTURE PARTNERS FUND I
U.G.P. LTD**

Its General Partner,

By: /s/ Robert Hopfner

Robert Hopfner

Authorized Signatory

**PIVOTAL BIOVENTURE PARTNERS FUND I U.G.P.
LTD**

By: /s/ Robert Hopfner

Robert Hopfner

Authorized Signatory

PIVOTAL PARTNERS LTD

By: /s/ Sun Xintong
Name: Sun Xintong
Title: Director

PIVOTAL LIFE SCIENCES HOLDINGS LIMITED

By: /s/ Sun Xintong
Name: Sun Xintong
Title: Director

NAN FUNG LIFE SCIENCES HOLDINGS LIMITED

By: /s/ Sun Xintong
Sun Xintong
Director

NF INVESTMENT HOLDINGS LIMITED

By: /s/ Tang Chun Wai Nelson
Tang Chun Wai Nelson
Director

NAN FUNG GROUP HOLDINGS LIMITED

By: /s/ Tang Chun Wai Nelson
Tang Chun Wai Nelson
Director