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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549**

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**SCHEDULE 13G**

**Under the Securities Exchange Act of 1934**

**(Amendment No. )\***

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**Inozyme Pharma, Inc.**

(Name of Issuer)

**Common stock, \$0.0001 par value per share**

(Title of Class of Securities)

**45790W108**

(CUSIP Number)

**December 31, 2020**

(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)
- Rule 13d-1(c)
- 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 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).

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1	NAMES OF REPORTING PERSON(S) <b>New Enterprise Associates 15, L.P.</b>		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP <span style="float: right;">(a) <input type="checkbox"/></span> <span style="float: right;">(b) <input type="checkbox"/></span>		
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION <b>Delaware limited partnership</b>		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER  <b>0</b>	
	6	SHARED VOTING POWER  <b>2,437,689 shares</b>	
	7	SOLE DISPOSITIVE POWER  <b>0</b>	
	8	SHARED DISPOSITIVE POWER  <b>2,437,689 shares</b>	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  <b>2,437,689 shares</b>		
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES <span style="float: right;"><input type="checkbox"/></span>		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  <b>10.4%</b>		
12	TYPE OF REPORTING PERSON  <b>PN</b>		

<b>1</b>	NAMES OF REPORTING PERSON(S) <b>NEA Partners 15, L.P.</b>		
<b>2</b>	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>		
<b>3</b>	SEC USE ONLY		
<b>4</b>	CITIZENSHIP OR PLACE OF ORGANIZATION <b>Delaware limited partnership</b>		
<b>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</b>	<b>5</b>	SOLE VOTING POWER <b>0</b>	
	<b>6</b>	SHARED VOTING POWER <b>2,437,689 shares</b>	
	<b>7</b>	SOLE DISPOSITIVE POWER <b>0</b>	
	<b>8</b>	SHARED DISPOSITIVE POWER <b>2,437,689 shares</b>	
<b>9</b>	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON <b>2,437,689 shares</b>		
<b>10</b>	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES <input type="checkbox"/>		
<b>11</b>	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) <b>10.4%</b>		
<b>12</b>	TYPE OF REPORTING PERSON <b>PN</b>		

1	NAMES OF REPORTING PERSON(S) NEA 15 GP, LLC		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP <span style="float: right;">(a) <input type="checkbox"/></span> <span style="float: right;">(b) <input type="checkbox"/></span>		
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware limited liability company		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER 0	
	6	SHARED VOTING POWER 2,437,689 shares	
	7	SOLE DISPOSITIVE POWER 0	
	8	SHARED DISPOSITIVE POWER 2,437,689 shares	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,437,689 shares		
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES <span style="float: right;"><input type="checkbox"/></span>		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 10.4%		
12	TYPE OF REPORTING PERSON OO		

<b>1</b>	NAMES OF REPORTING PERSON(S)  <b>Forest Baskettt</b>		
<b>2</b>	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP <span style="float: right;">(a) <input type="checkbox"/></span> <span style="float: right;">(b) <input type="checkbox"/></span>		
<b>3</b>	SEC USE ONLY		
<b>4</b>	CITIZENSHIP OR PLACE OF ORGANIZATION  <b>United States</b>		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	<b>5</b>	SOLE VOTING POWER  <b>0</b>	
	<b>6</b>	SHARED VOTING POWER  <b>2,437,689 shares</b>	
	<b>7</b>	SOLE DISPOSITIVE POWER  <b>0</b>	
	<b>8</b>	SHARED DISPOSITIVE POWER  <b>2,437,689 shares</b>	
<b>9</b>	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  <b>2,437,689 shares</b>		
<b>10</b>	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES <span style="float: right;"><input type="checkbox"/></span>		
<b>11</b>	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  <b>10.4%</b>		
<b>12</b>	TYPE OF REPORTING PERSON  <b>IN</b>		

<b>1</b>	NAMES OF REPORTING PERSON(S) <b>Anthony A. Florence, Jr.</b>		
<b>2</b>	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>		
<b>3</b>	SEC USE ONLY		
<b>4</b>	CITIZENSHIP OR PLACE OF ORGANIZATION <b>United States</b>		
<b>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</b>	<b>5</b>	SOLE VOTING POWER <b>0</b>	
	<b>6</b>	SHARED VOTING POWER <b>2,437,689 shares</b>	
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	<b>8</b>	SHARED DISPOSITIVE POWER <b>2,437,689 shares</b>	
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<b>10</b>	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES <input type="checkbox"/>		
<b>11</b>	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) <b>10.4%</b>		
<b>12</b>	TYPE OF REPORTING PERSON <b>IN</b>		

<b>1</b>	NAMES OF REPORTING PERSON(S)  <b>Mohamad H. Makhzoumi</b>		
<b>2</b>	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP <span style="float: right;">(a) <input type="checkbox"/></span> <span style="float: right;">(b) <input type="checkbox"/></span>		
<b>3</b>	SEC USE ONLY		
<b>4</b>	CITIZENSHIP OR PLACE OF ORGANIZATION  <b>United States</b>		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	<b>5</b>	SOLE VOTING POWER  <b>0</b>	
	<b>6</b>	SHARED VOTING POWER  <b>2,437,689 shares</b>	
	<b>7</b>	SOLE DISPOSITIVE POWER  <b>0</b>	
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<b>11</b>	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  <b>10.4%</b>		
<b>12</b>	TYPE OF REPORTING PERSON  <b>IN</b>		

<b>1</b>	NAMES OF REPORTING PERSON(S)  <b>Joshua Makower</b>		
<b>2</b>	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP <span style="float: right;">(a) <input type="checkbox"/></span> <span style="float: right;">(b) <input type="checkbox"/></span>		
<b>3</b>	SEC USE ONLY		
<b>4</b>	CITIZENSHIP OR PLACE OF ORGANIZATION  <b>United States</b>		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	<b>5</b>	SOLE VOTING POWER  <b>0</b>	
	<b>6</b>	SHARED VOTING POWER  <b>2,437,689 shares</b>	
	<b>7</b>	SOLE DISPOSITIVE POWER  <b>0</b>	
	<b>8</b>	SHARED DISPOSITIVE POWER  <b>2,437,689 shares</b>	
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<b>11</b>	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  <b>10.4%</b>		
<b>12</b>	TYPE OF REPORTING PERSON  <b>IN</b>		



<b>1</b>	NAMES OF REPORTING PERSON(S)  <b>Scott D. Sandell</b>		
<b>2</b>	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP <span style="float: right;">(a) <input type="checkbox"/></span> <span style="float: right;">(b) <input type="checkbox"/></span>		
<b>3</b>	SEC USE ONLY		
<b>4</b>	CITIZENSHIP OR PLACE OF ORGANIZATION  <b>United States</b>		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	<b>5</b>	SOLE VOTING POWER  <b>0</b>	
	<b>6</b>	SHARED VOTING POWER  <b>2,437,689 shares</b>	
	<b>7</b>	SOLE DISPOSITIVE POWER  <b>0</b>	
	<b>8</b>	SHARED DISPOSITIVE POWER  <b>2,437,689 shares</b>	
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<b>11</b>	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  <b>10.4%</b>		
<b>12</b>	TYPE OF REPORTING PERSON  <b>IN</b>		

<b>1</b>	NAMES OF REPORTING PERSON(S)  <b>Peter W. Sonsini</b>		
<b>2</b>	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP <span style="float: right;">(a) <input type="checkbox"/></span> <span style="float: right;">(b) <input type="checkbox"/></span>		
<b>3</b>	SEC USE ONLY		
<b>4</b>	CITIZENSHIP OR PLACE OF ORGANIZATION  <b>United States</b>		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	<b>5</b>	SOLE VOTING POWER  <b>0</b>	
	<b>6</b>	SHARED VOTING POWER  <b>2,437,689 shares</b>	
	<b>7</b>	SOLE DISPOSITIVE POWER  <b>0</b>	
	<b>8</b>	SHARED DISPOSITIVE POWER  <b>2,437,689 shares</b>	
<b>9</b>	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  <b>2,437,689 shares</b>		
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<b>11</b>	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  <b>10.4%</b>		
<b>12</b>	TYPE OF REPORTING PERSON  <b>IN</b>		

**Item 1(a). Name of Issuer:**

Inozyme Pharma, Inc. (the "Issuer").

**Item 1(b). Address of Issuer's Principal Executive Offices:**

321 Summer Street, Suite 400, Boston, Massachusetts 02210.

**Item 2(a). Names of Persons Filing:**

This statement is being filed by New Enterprise Associates 15, L.P. ("NEA 15"); NEA Partners 15, L.P. ("NEA Partners 15"), which is the sole general partner of NEA 15; NEA 15 GP, LLC ("NEA 15 GP"), which is the sole general partner of NEA Partners 15; and Forest Baskett ("Baskett"), Anthony A. Florence, Jr. ("Florence"), Mohamad H. Makhzoumi ("Makhzoumi"), Joshua Makower ("Makower"), Scott D. Sandell ("Sandell") and Peter W. Sonsini ("Sonsini") (collectively, the "Managers"). The Managers are the managers of NEA 15 GP. NEA 15, NEA Partners 15, NEA 15 GP and the Managers are sometimes referred to collectively herein as the "Reporting Persons".

**Item 2(b). Address of Principal Business Office or, if none, Residence:**

The address of the principal business office of NEA 15, NEA Partners 15, NEA 15 GP and Sandell is New Enterprise Associates, 1954 Greenspring Drive, Suite 600, Timonium, MD 21093. The address of the principal business office of Baskett, Makhzoumi, Makower, and Sonsini is New Enterprise Associates, 2855 Sand Hill Road, Menlo Park, California 94025. The address of the principal business office of Florence is New Enterprise Associates, 104 5<sup>th</sup> Avenue, 19th Floor, New York, NY 10001.

**Item 2(c). Citizenship:**

Each of NEA 15 and NEA Partners 15 is a Delaware limited partnership. NEA 15 GP is a Delaware limited liability company. Each of the Managers is a United States citizen.

**Item 2(d). Title of Class of Securities.**

Common stock, \$0.0001 par value ("Common Stock").

**Item 2(e). CUSIP Number.**

45790W108

**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:**

Not Applicable.

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**Item 4. Ownership:**

- (a) Amount Beneficially Owned: NEA 15 is the record owner of 2,437,689 shares of Common Stock as of December 31, 2020 (the "Shares"). As the sole general partner of NEA 15, NEA Partners 15 may be deemed to own beneficially the Shares. As the sole general partner of NEA Partners 15, NEA 15 GP likewise may be deemed to own beneficially the Shares. As the individual Managers of NEA 15 GP, each of the Managers also may be deemed to own beneficially the Shares.
- (b) Percent of Class: See Line 11 of cover sheets. The percentages set forth on the cover sheet for each Reporting Person are calculated based on 23,372,844 shares of Common Stock reported by the Issuer to be outstanding as of November 6, 2020 on the Issuer's Form 10-Q filed with the Securities and Exchange Commission on November 12, 2020.
- (c) Number of shares as to which such person has:
- (i) Sole power to vote or to direct the vote: See Line 5 of the cover sheets.
  - (ii) Shared power to vote or to direct the vote: See Line 6 of the cover sheets.
  - (iii) Sole power to dispose or to direct the disposition of: See Line 7 of the cover sheets.
  - (iv) Shared power to dispose or to direct the disposition of: See Line 8 of the cover sheets.

Each Reporting Person disclaims beneficial ownership of such Securities except for the shares, if any, such Reporting Person holds of record.

**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. The Reporting Persons expressly disclaim membership in a "group" as used in Rule 13d-5(b).

**Item 9. Notice of Dissolution of Group.**

Not applicable.

**Item 10. Certification.**

Not applicable. This Schedule 13G is not filed pursuant to Rule 13d-1(b) or Rule 13d-1(c).

**Material to be Filed as Exhibits.**

Exhibit 1 – Agreement regarding filing of joint Schedule 13G.

Exhibit 2 – Power of Attorney regarding filings under the Securities Exchange Act of 1934, as amended.

**SIGNATURE**

After reasonable inquiry and to the best of its knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

EXECUTED this 12<sup>th</sup> day of February, 2021.

NEW ENTERPRISE ASSOCIATES 15, L.P.

By: NEA PARTNERS 15, L.P.  
General Partner

By: NEA 15 GP, LLC  
General Partner

By: \_\_\_\_\_  
\*  
Louis S. Citron  
Chief Legal Officer

NEA PARTNERS 15, L.P.

By: NEA 15 GP, LLC  
General Partner

By: \_\_\_\_\_  
\*  
Louis S. Citron  
Chief Legal Officer

NEA 15 GP, LLC

By: \_\_\_\_\_  
\*  
Louis S. Citron  
Chief Legal Officer

\_\_\_\_\_  
\*  
Forest Baskett

\_\_\_\_\_  
\*  
Anthony A. Florence, Jr.

\_\_\_\_\_  
\*  
Mohamad H. Makhzoumi

\_\_\_\_\_  
\*  
Joshua Makower

\*  
Scott D. Sandell

                  \*  
Peter W. Sonsini

\*/s/ Sasha O. Keough  
Sasha O. Keough  
As attorney-in-fact

This Schedule 13G was executed by Sasha O. Keough on behalf of the individuals listed above pursuant to a Power of Attorney, a copy of which is attached as Exhibit 2.

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**EXHIBIT 1**

**AGREEMENT**

Pursuant to Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, the undersigned hereby agree that only one statement containing the information required by Schedule 13G need be filed with respect to the ownership by each of the undersigned of shares of stock of Inozyme Pharma, Inc.

EXECUTED this 12<sup>th</sup> day of February, 2021.

NEW ENTERPRISE ASSOCIATES 15, L.P.

By: NEA PARTNERS 15, L.P.  
General Partner

By: NEA 15 GP, LLC  
General Partner

By: \_\_\_\_\_ \*  
Louis S. Citron  
Chief Legal Officer

NEA PARTNERS 15, L.P.

By: NEA 15 GP, LLC  
General Partner

By: \_\_\_\_\_ \*  
Louis S. Citron  
Chief Legal Officer

NEA 15 GP, LLC

By: \_\_\_\_\_ \*  
Louis S. Citron  
Chief Legal Officer

\_\_\_\_\_  
\*  
Forest Baskett

\_\_\_\_\_  
\*  
Anthony A. Florence, Jr.

\_\_\_\_\_  
\*  
Mohamad H. Makhzoumi

\_\_\_\_\_  
\*  
Joshua Makower

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\*

\_\_\_\_\_  
Scott D. Sandell

\*

\_\_\_\_\_  
Peter W. Sonsini

\*/s/ Sasha O. Keough  
Sasha O. Keough  
As attorney-in-fact

This Agreement was executed by Sasha O. Keough on behalf of the individuals listed above pursuant to a Power of Attorney a copy of which is attached as Exhibit 2.

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**EXHIBIT 2****POWER OF ATTORNEY**

KNOW ALL MEN BY THESE PRESENTS, that the undersigned hereby constitutes and appoints Louis S. Citron, Timothy Schaller, Sasha Keough and Stephanie Brecher, and each of them, with full power to act without the others, his or her true and lawful attorney-in-fact, with full power of substitution, to sign any and all instruments, certificates and documents that may be necessary, desirable or appropriate to be executed on behalf of himself as an individual or in his or her capacity as a direct or indirect general partner, director, officer or manager of any partnership, corporation or limited liability company, pursuant to section 13 or 16 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and any and all regulations promulgated thereunder, and to file the same, with all exhibits thereto, and any other documents in connection therewith, with the Securities and Exchange Commission, and with any other entity when and if such is mandated by the Exchange Act or by the Financial Industry Regulatory Authority, granting unto said attorney-in-fact full power and authority to do and perform each and every act and thing necessary, desirable or appropriate, fully to all intents and purposes as he or she might or could do in person, thereby ratifying and confirming all that said attorney-in-fact, or his or her substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, this Power of Attorney has been signed as of the 13th day of March, 2017.

/s/ M. James Barrett  
M. James Barrett

/s/ Peter J. Barris  
Peter J. Barris

/s/ Forest Baskett  
Forest Baskett

/s/ Ali Behbahani  
Ali Behbahani

/s/ Colin Bryant  
Colin Bryant

/s/ Carmen Chang  
Carmen Chang

/s/ Anthony A. Florence, Jr.  
Anthony A. Florence, Jr.

/s/ Carol G. Gallagher  
Carol G. Gallagher

/s/ Dayna Grayson  
Dayna Grayson

/s/ Patrick J. Kerins  
Patrick J. Kerins

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/s/ P. Justin Klein  
P. Justin Klein

/s/ Vanessa Larco  
Vanessa Larco

/s/ Joshua Makower  
Joshua Makower

/s/ Mohamad H. Makhzoumi  
Mohamad H. Makhzoumi

/s/ Edward T. Mathers  
Edward T. Mathers

/s/ David M. Mott  
David M. Mott

/s/ Sara M. Nayeem  
Sara M. Nayeem

/s/ Jason R. Nunn  
Jason R. Nunn

/s/ Gregory Papadopoulos  
Gregory Papadopoulos

/s/ Chetan Puttagunta  
Chetan Puttagunta

/s/ Jon Sakoda  
Jon Sakoda

/s/ Scott D. Sandell  
Scott D. Sandell

/s/ A. Brooke Seawell  
A. Brooke Seawell

/s/ Peter W. Sonsini  
Peter W. Sonsini

/s/ Melissa Taunton  
Melissa Taunton

/s/ Frank M. Torti  
Frank M. Torti

/s/ Ravi Viswanathan  
Ravi Viswanathan

/s/ Paul E. Walker  
Paul E. Walker

/s/ Rick Yang  
Rick Yang

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