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

SCHEDULE 13G
Under the Securities Exchange Act of 1934
(Amendment No. 1)*
Lyell Immunopharma, Inc.
(Name of Issuer)
Common Stock par value \$0.0001 per share
(Title of Class of Securities)
55083R 104
(CUSIP Number)
December 31, 2023
(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)			
	ARCH Venture Fund IX, L.P.			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) (b)			
3	SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware			
		5	SOLE VOTING POWER  0	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		6	SHARED VOTING POWER  36,412,716	
		7	SOLE DISPOSITIVE POWER  0	
		8	SHARED DISPOSITIVE POWER  36,412,716	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 36,412,716			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  14.5%			
12	TYPE OF REPORTING PERSON PN			

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1	NAMES OF R	REPORTING PERSON(S)			
	ARCH Venture Fund IX Overage, L.P.				
2	CHECK THE	APPROPRIATE BOX IF A MEMBER OF A GROUP	(a)		
3	SEC USE ONI	ILY			
4	CITIZENSHIP	P OR PLACE OF ORGANIZATION			
4					
	Delaware				
		5 SOLE VOTING POWER			
		0			
		CHAPER VOTING POWER			
NUN	MBER OF	6 SHARED VOTING POWER			
SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		36,412,716			
		7 SOLE DISPOSITIVE POWER			
		0			
		SHARED DISPOSITIVE POWER			
		O			
		36,412,716			
9	AGGREGATI	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	36,412,716				
10					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	14.5%				
12	TYPE OF RE	EPORTING PERSON			
14	PN				
	111				

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1	NAMES OF REPORTING PERSON(S)				
	ARCH Venture Partners IX, L.P.				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP				
3	SEC USE ONLY				
4	CITIZENSHIP	OR PL	ACE OF ORGANIZATION		
	Delaware				
		5	SOLE VOTING POWER  0		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		6	SHARED VOTING POWER 36,412,716		
		7	SOLE DISPOSITIVE POWER  0		
		8	SHARED DISPOSITIVE POWER  36,412,716		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 36,412,716				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  14.5%				
12	TYPE OF RE	PORTIN	NG PERSON		
	PN				

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1	NAMES OF REPORTING PERSON(S)				
	ARCH Venture Partners IX Overage, L.P.				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) (b)				
3	SEC USE ONLY				
4	CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware				
		5 SOLE VOTING POWER 0			
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		6 SHARED VOTING POWER 36,412,716			
		7 SOLE DISPOSITIVE POWER  0			
		8 SHARED DISPOSITIVE POWER 36,412,716			
9	AGGREGATE 36,412,716	TE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  14.5%				
12	TYPE OF REPORTING PERSON PN				

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1	NAMES OF REPORTING PERSON(S)				
	ARCH Venture Partners IX, LLC				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) (b)				
3	SEC USE ONLY				
4	CITIZENSHIP	OR PLA	ACE OF ORGANIZATION		
	Delaware				
		5	SOLE VOTING POWER  0		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		6	SHARED VOTING POWER 36,412,716		
		7	SOLE DISPOSITIVE POWER  0		
		8	SHARED DISPOSITIVE POWER  36,412,716		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	36,412,716				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  14.5%				
12	TYPE OF REPORTING PERSON  OO				

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1	NAMES OF R	EPORT	TNG PERSON(S)		
1	NAMES OF REPORTING PERSON(S)				
	Keith Crandell				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a)  (b)  (b)				
3	SEC USE ONLY				
4 CITIZENSHIP OR PLACE OF ORGANIZATION					
	United States of America				
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		5	SOLE VOTING POWER  0		
		6	SHARED VOTING POWER 36,412,716		
		7	SOLE DISPOSITIVE POWER  0		
		8	SHARED DISPOSITIVE POWER  36,412,716		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 36,412,716				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  14.5%				
12	TYPE OF RE	PORTI	NG PERSON		
	IN				

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1	NAMES OF REPORTING PERSON(S)				
	Clinton Bybee				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a)  (b)  (b)				
3	SEC USE ONLY				
4	4 CITIZENSHIP OR PLACE OF ORGANIZATION				
	United States of America				
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		5 SOLE VOTING POWER 0			
		6 SHARED VOTING POWER 36,412,716			
		7 SOLE DISPOSITIVE POWER  0			
		8 SHARED DISPOSITIVE POWER 36,412,716			
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 36,412,716				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  14.5%				
12	TYPE OF RE	EPORTING PERSON			
	IN				

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1	NAMES OF REPORTING PERSON(S)				
	Robert Nelsen				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) □ (b) □				
3	SEC USE ONLY				
4	CITIZENSHIP OR PLACE OF ORGANIZATION				
	United States of America				
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		5	SOLE VOTING POWER 65,000		
		6	SHARED VOTING POWER 36,412,716		
		7	SOLE DISPOSITIVE POWER 65,000		
		8	SHARED DISPOSITIVE POWER  36,412,716		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 36,477,716				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  14.5%				
12	TYPE OF RE	PORTIN	NG PERSON		
	IN				

#### Item 1(a). Name of Issuer

Lyell Immunopharma, Inc. (the "Issuer").

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

201 Haskins Way, South San Francisco, CA 94080

#### Item 2(a). Name of Person Filing

ARCH Venture Fund IX, L.P. ("AVF IX"); ARCH Venture Partners IX, L.P. ("AVF IX LP"); ARCH Venture Partners IX, LLC ("AVF IX LLC"); ARCH Venture Fund IX Overage, L.P. ("AVF IX Overage"); ARCH Venture Partners IX Overage, L.P. ("AVF IX Overage GP") (collectively, the "Reporting Entities" and individually, each a "Reporting Entity"); and Keith Crandell ("Crandell"), Robert Nelsen ("Nelsen") and Clinton Bybee ("Bybee") (collectively, the "Managing Directors" and individually, each a "Managing Director"). The Reporting Entities and the Managing Directors collectively are referred to as the "Reporting Persons".

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

8755 W. Higgins Avenue, Suite 1025, Chicago, IL 60631

#### Item 2(c). <u>Citizenship</u>

Each of AVF IX, AVF IX LP, AVF IX Overage and AVF IX Overage GP, are limited partnerships organized under the laws of the State of Delaware. AVP IX LLC is a limited liability company organized under the laws of the State of Delaware. Each Managing Director is a US citizen.

## Item 2(d). <u>Title of Class of Securities</u>

Common stock, par value \$0.0001 per share.

#### Item 2(e). <u>CUSIP Number</u>

55083R 104

#### Item 3. If this statement is filed pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:

Not Applicable.

#### Item 4. Ownership

(a) Amount beneficially owned:

AVF IX is the record owner of 18,206,358 shares of Common Stock (the "AVF IX Shares") as of December 31, 2023. AVP IX LP, as the sole general partner of AVF IX, may be deemed to beneficially own the AVF IX Shares. AVF IX Overage is the record owner of 18,206,358 shares of Common Stock (the "AVF IX Overage Shares"; combined with AVF IX Shares, the "Record Shares") as of December 31, 2023. AVF IX Overage GP, as the sole general partner of AVF IX Overage, may be deemed to beneficially own the AVF IX Overage Shares. AVP IX LLC, as the sole general partner of AVP IX LP and AVF IX Overage GP, may be deemed to beneficially own the Record Shares. As managing directors of AVP IX LLC, each Managing Director may also be deemed to share the power to direct the disposition and vote of the Record Shares. In addition, as of December 31, 2023, Nelsen is a holder of vested options to purchase 65,000 Shares of Common Stock (the "Vested Option Shares").

(b) Percent of class:

See line 11 of the cover sheets. The percentages set forth on the cover sheet for each Reporting Person is based upon 251,868,968 shares of common stock outstanding as of November 2, 2023, as reported on the Issuer's Form 10-Q as filed with the Securities and Exchange Commission on November 7, 2023. For Nelsen, the Vested Option Shares were included in the number of shares of Common Stock outstanding.

- (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:

See line 7 of the cover sheets.

(iv) Shared power to dispose or to direct the disposition:

See line 8 of the cover sheets.

Each Reporting Person disclaims beneficial ownership of such shares of Common Stock 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. <u>Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company</u>

Not Applicable.

## Item 8. <u>Identification and Classification of Members of the Group</u>

Not Applicable.

## Item 9. Notice of Dissolution of Group

Not Applicable.

# Item 10. <u>Certifications</u>

Not Applicable.

## **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.

Dated: February 14, 2024

ARCH VENTURE FUND IX, L.P.

By: ARCH Venture Partners IX, L.P. its General Partner

By: ARCH Venture Partners IX, LLC its General Partner

By: \*
Keith Crandell
Managing Director

ARCH VENTURE PARTNERS IX, L.P.

By: ARCH Venture Partners IX, LLC its General Partner

By: \*
Keith Crandell
Managing Director

ARCH VENTURE PARTNERS IX, LLC

By: \*
Keith Crandell
Managing Director

ARCH VENTURE FUND IX OVERAGE, L.P.

By: ARCH Venture Partners IX Overage, L.P. its General Partner

By: ARCH Venture Partners IX, LLC its General Partner

By: \*
Keith Crandell
Managing Director

## ARCH VENTURE PARTNERS IX OVERAGE, L.P.

Ву:	its General Partner				
	By:	*			
	Keith Cra	ndell			

Managing Director

	*	
Keith Crandell		
	*	
Robert Nelsen		
	*	
Clinton Bybee		

\* By: /s/ Mark McDonnell

Mark McDonnell as

Attorney-in-Fact

<sup>\*</sup> This Schedule 13G was executed by Mark McDonnell pursuant to a Power of Attorney filed as Exhibit 24 to the Form 3 relating to the beneficial ownership of shares of Gossamer Bio, Inc. by the Reporting Persons filed with the Securities Exchange Commission on February 7, 2019 and incorporated herein in its entirety by reference.

## 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 Lyell Immunopharma, Inc.

This Agreement may be executed in any number of counterparts, each of which shall be deemed an original.

Dated: February 14, 2024

ARCH VENTURE FUND IX, L.P. ARCH Venture Partners IX, L.P. its General Partner By: ARCH Venture Partners IX, LLC its General Partner By: Keith Crandell Managing Director ARCH VENTURE PARTNERS IX, L.P. ARCH Venture Partners IX, LLC By: its General Partner By: Keith Crandell Managing Director ARCH VENTURE PARTNERS IX, LLC By: Keith Crandell Managing Director ARCH VENTURE FUND IX OVERAGE, L.P. By: ARCH Venture Partners IX Overage, L.P. its General Partner By: ARCH Venture Partners IX, LLC its General Partner By:

Keith Crandell Managing Director

## ARCH VENTURE PARTNERS IX OVERAGE, L.P.

By:	By: ARCH Venture Partners IX, LLC		
	its General Partner		
	By:	*	
	K	eith Crandell	
	M	anaging Director	
		*	
Keith	Crandell	L	
		*	
Robe	rt Nelsen		

Clinton Bybee

\* By: /s/ Mark McDonnell
Mark McDonnell as
Attorney-in-Fact

<sup>\*</sup> This Agreement was executed by Mark McDonnell pursuant to a Power of Attorney filed as Exhibit 24 to the Form 3 relating to the beneficial ownership of shares of Gossamer Bio, Inc. by the Reporting Persons filed with the Securities Exchange Commission on February 7, 2019 and incorporated herein in its entirety by reference.