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

# SCHEDULE 13G (Rule 13d-102)

### INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b), (c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)

(Amendment No. 1)<sup>1</sup>

Bionomics Limited
(Name of Issuer)
Ordinary Shares, no par value per share
(Title of Class of Securities)
09063M205
(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 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 ("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, <i>see</i> the <i>Notes</i> ).

1	NAME OF REPOR	RTING PERSON	
	Biotechnolog	gy Value Fund, L.P.	
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES BENEFICIALLY	5	SOLE VOTING POWER  0	
OWNED BY EACH REPORTING	6	SHARED VOTING POWER  0	
PERSON WITH	7	SOLE DISPOSITIVE POWER  0	
	8	SHARED DISPOSITIVE POWER	
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11		ASS REPRESENTED BY AMOUNT IN ROW (9)	
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3	SEC USE ONLY			
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4	CITIZENSHIP OR	PLACE OF ORGANIZATION		
	Delaware			
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BENEFICIALLY		0		
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9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
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11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)		
	0%			
12	TYPE OF REPORT	TING PERSON		
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1	NAME OF REPOR	RTING PERSON	
	Biotechnology Value Fund II, L.P.		
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES BENEFICIALLY	5	SOLE VOTING POWER 0	
OWNED BY EACH REPORTING	6	SHARED VOTING POWER  0	
PERSON WITH	7	SOLE DISPOSITIVE POWER  0	
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10	CHECK BOX IF T	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
12	0% TYPE OF REPOR	TIMO BED COM	
12	PN	TING PERSON	

1	NAME OF REPO	RTING PERSON		
	BVF II GP I	BVF II GP LLC		
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
			(b) □	
3	SEC USE ONLY			
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION		
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1	NAME OF REPOR	TING PERSON	
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8 SHARED DISPOSITIVE POWER  0 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  0 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  0%					
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	12	TYPE OF REPOR	RTING PERSON		
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1	NAME OF REPOR	RTING PERSON	
	BVF GP Holdings LLC		
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES BENEFICIALLY	5	SOLE VOTING POWER  0	
OWNED BY EACH REPORTING	6	SHARED VOTING POWER  0	
PERSON WITH	7	SOLE DISPOSITIVE POWER  0	
	8	SHARED DISPOSITIVE POWER	
9	AGGREGATE AN	0 MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
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10	CHECK BOX IF T	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
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1	NAME OF REPOR	TING PERSON		
	BVF Partners	BVF Partners L.P.		
2		ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □	
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3	SEC USE ONLY			
4	CITIZENSHIP OR	PLACE OF ORGANIZATION		
	Delaware			
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BENEFICIALLY		0		
OWNED BY EACH	6	SHARED VOTING POWER		
REPORTING	_	0		
PERSON WITH	7	SOLE DISPOSITIVE POWER		
		0		
	8	SHARED DISPOSITIVE POWER		
9	ACCRECATE AM	0 OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
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10	CHECK BOX IF 1	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN STAKES		
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)		
11		is a reserved by amount in row (7)		
12	0% TYPE OF REPORT	TING PERSON		
	PN, IA			

1	NAME OF REPO	NAME OF REPORTING PERSON		
	BVF Inc.			
2	CHECK THE API	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵	
			(b) □	
3	SEC USE ONLY			
4	CITIZENSHIP OF	R PLACE OF ORGANIZATION		
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NUMBER OF SHARES	5	SOLE VOTING POWER		
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1	NAME OF REPO	RTING PERSON	
	Mark N. La	mpert	
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
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3	SEC USE ONLY		
4	CITIZENSHIP O	R PLACE OF ORGANIZATION	
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OWNED BY EACH	6	SHARED VOTING POWER	
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#### Item 1(a). Name of Issuer:

Bionomics Limited, an Australian company (the "Issuer").

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

200 Greenhill Road Eastwood SA 5063

Australia

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

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

#### Item 2(c). Citizenship

Biotechnology Value Fund, L.P. ("BVF") 44 Montgomery St., 40th Floor San Francisco, California 94104

Citizenship: Delaware

BVF I GP LLC ("BVF GP") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

Biotechnology Value Fund II, L.P. ("BVF2") 44 Montgomery St., 40th Floor San Francisco, California 94104

Citizenship: Delaware

BVF II GP LLC ("BVF2 GP") 44 Montgomery St., 40th Floor San Francisco, California 94104

Citizenship: Delaware

Biotechnology Value Trading Fund OS LP ("Trading Fund OS")

PO Box 309 Ugland House Grand Cayman, KY1-1104 Cayman Islands Citizenship: Cayman Islands

BVF Partners OS Ltd. ("Partners OS") PO Box 309 Ugland House Grand Cayman, KY1-1104 Cayman Islands Citizenship: Cayman Islands

BVF GP Holdings LLC ("BVF GPH") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

BVF Partners L.P. ("Partners") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

BVF Inc. 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert") 44 Montgomery St., 40th Floor San Francisco, California 94104 Citizenship: United States

Each of the foregoing is referred to as a "Reporting Person" and collectively as the "Reporting Persons."

## Item 2(d). Title of Class of Securities:

Ordinary Shares, no par value per share (the "Shares").

#### Item 2(e). CUSIP Number:

09063M205

## 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:

	/x/	Not applicable.
(a)	//	Broker or dealer registered under Section 15 of the Exchange Act.
(b)	//	Bank as defined in Section 3(a)(6) of the Exchange Act.
(c)	//	Insurance company as defined in Section 3(a)(19) of the Exchange Act.
(d)	//	Investment company registered under Section 8 of the Investment Company Act.
(e)	//	An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E).
(f)	//	An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F).
(g)	//	A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G).
(h)	//	A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act.
(i)	//	A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act.
(j)	//	A non-U.S. institution, in accordance with Rule 13d-1(b)(1)(ii)(J).
(k)	//	Group, in accordance with Rule 13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J), please specify the type of institution:

#### Item 4. Ownership

As of the close of business on December 31, 2023, the Reporting Persons no longer beneficially owned any securities of the Issuer.

#### Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the Reporting Persons have ceased to be the beneficial owner of more than five percent of the Shares, check the following [X].

#### Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Not Applicable.

# Item 7. Identification and Classification of the Subsidiary That 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.

See Exhibit 99.1 to the Schedule 13G filed by the Reporting Persons with the Securities and Exchange Commission on February 14, 2022.

#### Item 9. Notice of Dissolution of Group.

Not Applicable.

#### Item 10. Certifications.

By signing below each of the undersigned certifies that, to the best of its knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

#### **SIGNATURE**

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

Dated: February 14, 2024

BIOTECHNOLOGY VALUE FUND, L.P.

By: BVF I GP LLC, its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert Chief Executive Officer

BVF I GP LLC

By: /s/ Mark N. Lampert

Mark N. Lampert

Chief Executive Officer

BIOTECHNOLOGY VALUE FUND II, L.P.

By: BVF II GP LLC, its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

Chief Executive Officer

BVF II GP LLC

By: /s/ Mark N. Lampert

Mark N. Lampert

Chief Executive Officer

BVF PARTNERS OS LTD.

By: BVF Partners L.P., its sole member

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BIOTECHNOLOGY VALUE TRADING FUND OS LP

By: BVF Partners L.P., its investment manager

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BVF GP HOLDINGS LLC

By: /s/ Mark N. Lampert

Mark N. Lampert

Chief Executive Officer

BVF PARTNERS L.P.

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BVF INC.

By: /s/ Mark N. Lampert

Mark N. Lampert

President

/s/ Mark N. Lampert

MARK N. LAMPERT

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