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

Bionomics Limited
(Name of Issuer)
Ordinary Shares, no par value
(Title of Class of Securities)
09063M205
(CUSIP Number)
December 31, 2021
(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 REPORT	TING PERSON	
	Distanburaless	. Value Final I D	
2		Value Fund, L.P. OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
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			(-) _
3	SEC USE ONLY		
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION	
-	CITIZEINOIIII OKI	ENGL OF OROTHVETTORY	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		77,527,212	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
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9	AGGREGATE AMO	DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	77,527,212		
10	CHECK BOX IF TH	IE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
11	TERCENT OF CLA	SO REI RESERTED DI AMOORTI IN NOW (3)	
	5.9%		
12	TYPE OF REPORT	ING PERSON	
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1	NAME OF REPOR	TING PERSON	
1	TWINE OF REPORT	THING I EROOM	
	BVF I GP LL	C	
2	CHECK THE APPI	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
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3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
NUMBER OF	Delaware	COLE MOTING POLITE	
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		77,527,212	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
9	ACCDEC ATE AM	77,527,212 OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	77,527,212		
10	CHECK BOX IF T	HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DEDCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	
11	PERCENT OF CLF	ASS REPRESENTED BY AMOUNT IN KOW (9)	
	5.9%		
12	TYPE OF REPORT	ING PERSON	
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	00		

1	NAME OF REPO	RTING PERSON	
	Biotechnolo	gy Value Fund II, L.P.	
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
2	CHECK THE API	PROPRIATE BOX IF A WIEWIDER OF A GROUP	(a) ⊠ (b) □
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3	SEC USE ONLY		
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4	CITIZENSHIP OF	R PLACE OF ORGANIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH			
REPORTING		72,518,782 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
	0	SHAKED DISFOSITIVE FOWER	
		72,518,782 (1)	
9	AGGREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	72,518,782 (
10	CHECK BOX IF	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CL	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	5.5%		
12	TYPE OF REPOR	TINC DEDSON	
12	TIPE OF REPOR	THIO I EROOM	
	PN		

(1) Includes 14,574,780 Ordinary Shares represented by 80,971 American Depositary Shares ("ADSs") (each ADS represents 180 Ordinary Shares).

1	NAME OF BEDODI	INC DEDCOM	
1	NAME OF REPORT	ING PERSON	
	D1/E 11 CD 1 1		
	BVF II GP LL		
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR F	PLACE OF ORGANIZATION	-
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES		SOLE VOING TOWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
	O	SHARED VOTING POWER	
EACH		F0 F40 F00 (4)	
REPORTING		72,518,782 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		72,518,782 (1)	
9	AGGREGATE AMO	DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	72,518,782 (1)		
10		E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
		()	
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
11	I LICEITI OI CEI	oo karraaan aa	
	5.5%		
12	TYPE OF REPORTI	NC DEDSON	
14	11FE OF KEPURII	NO LEWOOM	
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	00		

1	NAME OF REPOR	TING PERSON	
	Biotechnolog	y Value Trading Fund OS LP	
2	-	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR	PLACE OF ORGANIZATION	
	Cayman Islar	nds	
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY OWNED BY	6	0 shares SHARED VOTING POWER	
EACH	б	SHARED VOTING POWER	
REPORTING		10,134,688	
PERSON WITH	7	SOLE DISPOSITIVE POWER	-
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		10,134,688	
9	AGGREGATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	10,134,688		
10		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLA	ASS REPRESENTED BY AMOUNT IN ROW (9)	
	Less than 1%		
12	TYPE OF REPORT	TING PERSON	
	PN		
<u> </u>			

1	NAME OF REPORT	TING PERSON	
	BVF Partners	0617	
2		OS Ltd. OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
_	CHECK THE AIT IN	OF REAL POATE AT MEMBER OF A GROOT	(a) ≧ (b) □
			. ,
3	SEC USE ONLY		
4	CITIZENSHIP OR I	PLACE OF ORGANIZATION	
NUMBER OF	Cayman Island	SOLE VOTING POWER	
SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY	6	SHARED VOTING POWER	
EACH REPORTING		10 174 000	
PERSON WITH	7	10,134,688 SOLE DISPOSITIVE POWER	
1210011 11111	,	SOLL BIST COTTIVE TOWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		10,134,688	
9	AGGREGATE AMO	DUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	40.404.000		
10	10,134,688	IE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	П
10	CHECK BOX II- 11	LE AGGREGATE AMOUNT IN ROW (9) EACEODES CERTAIN STIARES	
11	PERCENT OF CLA	SS REPRESENTED BY AMOUNT IN ROW (9)	
	Less than 1%		
12	TYPE OF REPORT	ING PERSON	
	CO		

1	NAME OF REPORT	ING PERSON	
_			
	BVF GP Holdi	ngs LLC	
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
7	GIIIZLINGIIII GIVI	ENGL OF ORGINIZATION	
	Delaware		
NUMBER OF	5	SOLE VOTING POWER	
SHARES			
BENEFICIALLY		0 shares	
OWNED BY EACH	6	SHARED VOTING POWER	
REPORTING		150,045,994 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		150.045.004.(1)	
9	ACCDECATE AMO	150,045,994 (1) UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
9	AGGREGATE AMO	UNI DENEFICIALLI OWNED DI EACH REFORTING FERSON	
	150,045,994 (1		
10		E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
- 44	DED CENTE OF CLAS	CONTRACTOR DAY AND CONTRACTOR DAY OF THE POLY (A)	
11	PERCENT OF CLAS	S REPRESENTED BY AMOUNT IN ROW (9)	
	11.5%		
12	TYPE OF REPORTI	NG PERSON	
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1	NAME OF REPORT	ING PERSON	
	BVF Partners I	L.P.	
2	CHECK THE APPR	OPRIATE BOX IF A MEMBER OF A GROUP	(a) 🗵
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY EACH	6	SHARED VOTING POWER	
REPORTING		170,089,885 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		170,089,885 (1)	
9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	170,089,885 (1		
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)	
	13.0%		
12	TYPE OF REPORTI	NG PERSON	
	PN, IA		

1	NAME OF REPORT	ING PERSON	
	BVF Inc.		
2	CHECK THE APPRO	OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
	Delaware		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY EACH	6	SHARED VOTING POWER	
REPORTING		170,089,885 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
_		170,089,885 (1)	
9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
10	170,089,885 (1		
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	DED CENTE OF CLAS	CC DEDDECENTED DV AMOUNT IN DOLL (0)	
11	PERCENT OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)	
12	13.0%	NIC DEDCOM	
12	TYPE OF REPORTI	ING PERSOIN	
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1	NAME OF REPORT	ING PERSON	
	Mark N. Lamp	ert	
2	_	OPRIATE BOX IF A MEMBER OF A GROUP	(a) ⊠
			(b) □
3	SEC USE ONLY		
4	CITIZENSHIP OR P	LACE OF ORGANIZATION	
	United States		
NUMBER OF SHARES	5	SOLE VOTING POWER	
BENEFICIALLY		0 shares	
OWNED BY EACH	6	SHARED VOTING POWER	
REPORTING		170,089,885 (1)	
PERSON WITH	7	SOLE DISPOSITIVE POWER	
		0 shares	
	8	SHARED DISPOSITIVE POWER	
		170,089,885 (1)	
9	AGGREGATE AMO	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	170,089,885 (1		
10	CHECK BOX IF TH	E AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	
11	PERCENT OF CLAS	SS REPRESENTED BY AMOUNT IN ROW (9)	
	13.0%		
12	TYPE OF REPORTI	NG PERSON	
	IN		

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

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

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)	//	Group, in accordance with Rule 13d-1(b)(1)(ii)(J).
(k)	//	Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J), please specify the type of institution:

Item 4. Ownership

(a) Amount beneficially owned:

As of the close of business on December 31, 2021, (i) BVF beneficially owned 77,527,212 Shares, (ii) BVF2 beneficially owned 72,518,782 Shares, including 14,574,780 Shares represented by 80,971 ADSs and (iii) Trading Fund OS beneficially owned 10,134,688 Shares.

BVF GP, as the general partner of BVF, may be deemed to beneficially own the 77,527,212 Shares beneficially owned by BVF.

BVF2 GP, as the general partner of BVF2, may be deemed to beneficially own the 72,518,782 Shares beneficially owned by BVF2.

Partners OS, as the general partner of Trading Fund OS, may be deemed to beneficially own the 10,134,688 Shares beneficially owned by Trading Fund OS.

BVF GPH, as the sole member of each of BVF GP and BVF2 GP, may be deemed to beneficially own the 150,045,994 Shares beneficially owned in the aggregate by BVF and BVF2.

Partners, as the investment manager of BVF, BVF2 and Trading Fund OS, and the sole member of Partners OS, may be deemed to beneficially own the 170,089,885 Shares beneficially owned in the aggregate by BVF, BVF2 and Trading Fund OS and held in certain Partners managed accounts (the "Partners Managed Accounts"), including 9,909,203 Shares held in the Partners Managed Accounts.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 170,089,885 Shares beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 170,089,885 Shares beneficially owned by BVF Inc.

The foregoing should not be construed in and of itself as an admission by any Reporting Person as to beneficial ownership of any Shares owned by another Reporting Person. BVF GP disclaims beneficial ownership of the Shares beneficially owned by BVF. BVF2 GP disclaims beneficial ownership of the Shares beneficially owned by BVF2. Partners OS disclaims beneficial ownership of the Shares beneficially owned by Trading Fund OS. BVF GPH disclaims beneficial ownership of the Shares beneficially owned by BVF and BVF2. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the Shares beneficially owned by BVF, BVF2 and Trading Fund OS and held in the Partners Managed Accounts, and the filing of this statement shall not be construed as an admission that any such person or entity is the beneficial owner of any such securities.

(b) Percent of class:

The following percentages are based on 1,309,556,744 Shares outstanding (including in the form of ADSs), which is the total number of Shares outstanding as disclosed in the Issuer's Prospectus filed pursuant to Rule 424(b)(4) of the Securities Act of 1933, as amended, with the Securities and Exchange Commission on December 17, 2021.

As of the close of business on December 31, 2021, (i) BVF beneficially owned approximately 5.9% of the outstanding Shares, (ii) BVF2 beneficially owned approximately 5.5% of the outstanding Shares, (iii) Trading Fund OS beneficially owned less than 1% of the outstanding Shares, (iv) BVF GP may be deemed to beneficially own approximately 5.9% of the outstanding Shares, (v) BVF2 GP may be deemed to beneficially own approximately 5.5% of the outstanding Shares, (vi) Partners OS may be deemed to beneficially own less than 1% of the outstanding Shares, (vii) BVF GPH may be deemed to beneficially own approximately 11.5% of the outstanding Shares and (viii) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 13.0% of the outstanding Shares (less than 1% of the outstanding Shares are held in the Partners Managed Accounts).

- (c) Number of shares as to which such person has:
- (i) Sole power to vote or to direct the vote

See Cover Pages Items 5-9.

(ii) Shared power to vote or to direct the vote

See Cover Pages Items 5-9.

(iii) Sole power to dispose or to direct the disposition of

See Cover Pages Items 5-9.

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

See Cover Pages Items 5-9.

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.

BVF GP, BVF GPH, Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by BVF. BVF2 GP, BVF GPH, Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by BVF2. BVF GPH, Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the Shares beneficially owned by Trading Fund OS and held in the Partners Managed Accounts.

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.

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, 2022 BIOTECHNOLOGY VALUE FUND, L.P. BIOTECHNOLOGY VALUE TRADING FUND OS LP By: BVF Partners L.P., its investment manager BVF I GP LLC., its general partner BVF Inc., its general partner By: /s/ Mark N. Lampert Mark N. Lampert /s/ Mark N. Lampert Chief Executive Officer Mark N. Lampert President **BVF I GP LLC BVF GP HOLDINGS LLC** /s/ Mark N. Lampert By: Mark N. Lampert /s/ Mark N. Lampert Chief Executive Officer Mark N. Lampert Chief Executive Officer BIOTECHNOLOGY VALUE FUND II, L.P. BVF PARTNERS L.P. BVF II GP LLC, its general partner By: BVF Inc., its general partner /s/ Mark N. Lampert By: Mark N. Lampert /s/ Mark N. Lampert Chief Executive Officer Mark N. Lampert President **BVF II GP LLC** BVF INC. By: /s/ Mark N. Lampert /s/ Mark N. Lampert Mark N. Lampert Chief Executive Officer Mark N. Lampert President 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

/s/ Mark N. Lampert
MARK N. LAMPERT

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Joint Filing Agreement

The undersigned hereby agree that the Statement on Schedule 13G dated February 14, 2022 with respect to the ordinary shares, no par value per share, of Bionomics Limited, an Australian company, and any further amendments thereto executed by each and any of the undersigned shall be filed on behalf of each of the undersigned pursuant to and in accordance with the provisions of Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended.

Dated: February 14, 2022

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