# SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

#### SCHEDULE 13G/A

Under the Securities Exchange Act of 1934
(Amendment No. 2)\*

(Amendment No. 2)*	
Bionomics Limited	
(Name of Issuer)	
Ordinary Shares, no par value per share	
(Title of Class of Securities)	
89854M101**	
(CUSIP Number)	
September 30, 2024	
(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)	
(Page 1 of 7 Pages)	

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).

<sup>\*</sup>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 the disclosures provided in a prior cover page.

<sup>\*\*</sup>There is no CUSIP number assigned to the Ordinary Shares. The CUSIP number 09063M205 has been assigned to the ADSs of the Issuer, which are quoted on The NASDAQ Global Select Market under the symbol "BNOX." Each ADS represents one hundred eighty (180) Ordinary Shares.

	<del>i</del>				
1	NAME OF REPORTING PERSON				
	Lynx1 Capital Management LP				
2	CHECK THE	APPROPRIATE BOX IF A MEMBER OF A GROUP	(a)		
			(b)		
3	SEC USE ONLY				
4	CITIZENSHI	ITIZENSHIP OR PLACE OF ORGANIZATION			
	Delaware				
	5	SOLE VOTING POWER			
NAME OF STREET		0			
NUMBER OF SHARES	6	SHARED VOTING POWER			
BENEFICIALLY	Ŭ	98,941,140 ordinary shares (represented by 549,673 ADSs)			
OWNED BY	7	SOLE DISPOSITIVE POWER			
EACH REPORTING	,	0			
PERSON WITH	8	SHARED DISPOSITIVE POWER			
		98,941,140 ordinary shares (represented by 549,673 ADSs)			
9	AGGREGAT	E AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	98,941,140 ordinary shares (represented by 549,673 ADSs)				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	DEDCENIT OF CLASS DEDDESENTED DV AMOUNT IN DOW (0)				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 3.2%				
		DODENIA DEDGOV			
12	TYPE OF RE	PORTING PERSON			
	1 1 4				

	1			
1	NAME OF REPORTING PERSON			
	Weston Nichols			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a)			
			`_	
			(b) 🗌	
3	SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
	United St	tates of America		
NUMBER OF	5	SOLE VOTING POWER		
SHARES	3	0		
BENEFICIALLY				
OWNED BY	6	SHARED VOTING POWER		
EACH		98,941,140 ordinary shares (represented by 549,673 ADSs)		
REPORTING PERSON WITH	7	SOLE DISPOSITIVE POWER		
TERSON WITH		0		
	8	SHARED DISPOSITIVE POWER		
		98,941,140 ordinary shares (represented by 549,673 ADSs)		
9	ACCDECAT	LE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
9		40 ordinary shares (represented by 549,673 ADSs)		
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	3.2%			
12	TYPE OF RE	EPORTING PERSON		
12	IN	JORTHO I ERDON		

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

Bionomics Limited (the "Issuer")

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

200 Greenhill Road Eastwood SA, Australia 5063

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

This statement is filed by:

- (i) Lynx1 Capital Management LP (the "<u>Investment Manager</u>"), a Delaware limited partnership, and the investment manager to Lynx1 Master Fund LP (the "<u>Lynx1 Fund</u>"), with respect to the Ordinary Shares (as defined in Item 2(d) below) directly held by the Lynx1 Fund; and
- (ii) Mr. Weston Nichols ("Mr. Nichols"), the sole member of Lynx1 Capital Management GP LLC, the general partner of the Investment Manager, with respect to the Ordinary Shares directly held by the Lynx1 Fund.

The foregoing persons are hereinafter sometimes collectively referred to as the "Reporting Persons."

The filing of this statement should not be construed as an admission that any of the foregoing persons or any Reporting Person is, for the purposes of Section 13 of the Act, the beneficial owner of the Ordinary Shares reported herein.

## Item 2(b). Address of Principal Business Office.

Lynx1 Capital Management LP 151 Calle de San Francisco Suite 200, PMB 1237 San Juan, PR 00901-1607

Weston Nichols c/o Lynx1 Capital Management LP 151 Calle de San Francisco Suite 200, PMB 1237 San Juan, PR 00901-1607

## Item 2(c). Place of Organization.

Investment Manager – Delaware Mr. Nichols – United States of America

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

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

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There is no CUSIP number assigned to the Ordinary Shares. The CUSIP number 09063M205 has been assigned to the ADSs of the Issuer, which are quoted on The NASDAQ Global Select Market under the symbol "BNOX." Each ADS represents one hundred eighty (180) Ordinary Shares.

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:

(a)		Broker or dealer registered under section 15 of the Act (15 U.S.C. 780);
(b)		Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c);
(c)		Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c);
(d)		Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8);
(e)		An investment adviser in accordance with § 240.13d-1(b)(1)(ii)(E);
(f)		An employee benefit plan or endowment fund in accordance with § 240.13d-1(b)(1)(ii)(F);
(g)		A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);
(h)		A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C.1813);
(i)		A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
(j)		A non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J);
(k)		Group, in accordance with §240.13d-1(b)(1)(ii)(K).
If filing a	as a nor	n-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J), please

# Item 4. Ownership.

specify the type of institution:\_

The information required by Items 4(a) - (c) is set forth in Rows (5) - (11) of the cover page for each Reporting Person hereto and is incorporated herein by reference for each Reporting Person.

The percentages set forth herein as of the date hereof are calculated based upon 3,117,662,864 Ordinary Shares outstanding as of September 17, 2024, as reported in the Issuer's Annual Report on Form 10-K for the fiscal year ended June 30, 2024, filed with the Securities and Exchange Commission on September 30, 2024.

# 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 person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following:

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.

Item 9. Notice of Dissolution of Group.

Not applicable.

#### Item 10. Certification.

By signing below each Reporting Person certifies that, to the best of his or its knowledge and belief, the securities referred to above were not acquired 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 my knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Date: November 14, 2024

LYNX1 CAPITAL MANAGEMENT LP

By: Lynx1 Capital Management GP LLC, its general partner

By: <u>/s/ Weston Nichols</u> Name: Weston Nichols Title: Sole Member

/s/ Weston Nichols WESTON NICHOLS