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

POST-EFFECTIVE AMENDMENT NO. 1 TO FORM F-1 REGISTRATION STATEMENT NO. 333-280288 UNDER THE SECURITIES ACT OF 1933

Bionomics Limited

(Exact name of registrant as specified in its charter)

Not Applicable

(Translation of registrant's	
Australia	Not Applicable
(State or other jurisdiction of	(I.R.S. Employer
incorporation or organization)	Identification Number)
200 Greenhil Eastwood SA Australi +618 8150	A 5063 ia 7400
(Address and telephone number of regist	rant's principal executive offices)
Spyridon "Spyros" Pa President, Chief Executive c/o Cogency Gl 850 New Burton Ro Dover, DE 1 (Name, address and telephone nu	Officer and Director obal Inc. oad, Suite 201 19904
Copies to	o:
Andrew Ro Rimôn Level 2, 50 Brid Sydney, NSW 2000 andrew.reilly@rin	lge Street 0, Australia
Approximate date of commencement of proposed sale to the public: From time determined in light of market conditions.	ne to time after the effective date of this Registration Statement as
If only securities being registered on this Form are being offered pursuant to divid	dend or interest reinvestment plans, please check the following box. \Box
If any of the securities being registered on this Form are to be offered on a delayer 1933, check the following box. \Box	d or continuous basis pursuant to Rule 415 under the Securities Act of
If this Form is filed to register additional securities for an offering pursuant to Rul the Securities Act registration statement number of the earlier effective registration	
If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the registration statement number of the earlier effective registration statement for the	
If this Form is a registration statement pursuant to General Instruction I.C. or a powith the Commission pursuant to Rule 462(e) under the Securities Act, check the	
If this Form is a post-effective amendment to a registration statement filed pursua additional classes of securities pursuant to Rule 413(b) under the Securities Act, or	
Indicate by check mark whether the registrant is an emerging growth company as	defined in Rule 405 of the Securities Act of 1933.
	Emerging growth company ⊠
If an emerging growth company that prepares its financial statements in accordance not to use the extended transition period for complying with any new or revised fi	

the Securities Act. \square

EXPLANATORY NOTE DEREGISTRATION OF SECURITIES

This Post-Effective Amendment No. 1 relates to the Registration Statement on Form F-1 (Registration No. 333-280288) filed by Bionomics Limited (the "Registrant") with the Securities and Exchange Commission ("Commission") on June 18, 2024 and as declared effective by the Commission on June 26, 2024 (the "Registration Statement"), registering up to 3,641,213,340 ordinary shares of the Registrant as represented by 20,228,963 American Depositary Shares ("ADSs"), all of which were initially issued by the Registrant pursuant to the Securities Purchase Agreement dated as of May 31, 2024 by and between the Registrant and the selling shareholder identified in the Registration Statement (the "Selling Shareholder"), as described therein.

On December 23, 2024 U.S. time (the "Effective Date"), the redomiciliation of the Registrant was completed pursuant to which Neuphoria Therapeutics Inc., a Delaware corporation (the "Company"), acquired all of the issued and outstanding ordinary shares of the Registrant in exchange for newly issued shares of common stock of the Company pursuant to a Scheme of Arrangement under Australian law (the "Scheme"), and became the ultimate parent company of the Bionomics group of companies. As a result of completion of the Scheme, the Company became the successor issuer to the Registrant pursuant to Rule 12g-3(a) under the Securities Exchange Act of 1934, as amended.

As a result of the Scheme, the Registrant has terminated all offerings of its securities pursuant to the Registration Statement. The Registrant, by filing this Post-Effective Amendment No. 1, hereby terminates the effectiveness of the Registration Statement and removes from registration any and all securities registered but unsold under the Registration Statement as of the date hereof. This filing is made in accordance with an undertaking in the Registration Statement to remove from registration by means of a post-effective amendment any of the securities that were registered but which remain unsold at the termination of the offering.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form F-1 and has duly caused this post-effective amendment to the Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in Boston, Massachusetts, on December 23, 2024.

Bionomics Limited

By: /s/ Spyridon Papapetropoulos

Name: Spyridon Papapetropoulos

Title: President and Chief Executive Officer

No other person is required to sign this post-effective amendment in reliance upon Rule 478 under the Securities Act of 1933, as amended.