

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934

(Amendment No. 3)*

Critical Metals Corp.

(Name of Issuer)

Ordinary Shares, \$0.001 par value per share

(Title of Class of Securities)

G2662B103

(CUSIP Number)

06/30/2025

(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)

SCHEDULE 13G

CUSIP No. G2662B103

1

Names of Reporting Persons

Empery Asset Management, LP

Check the appropriate box if a member of a Group (see instructions)

2

☐ (a)

☐ (b)

3

Sec Use Only

Citizenship or Place of Organization

4

DELAWARE

	Sole Voting Power
5	0.00
Number of Shares Beneficially Owned by Each Reporting Person With:	Shared Voting Power
6	1,963,288.00
	Sole Dispositive Power
7	0.00
	Shared Dispositive Power
8	1,963,288.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person
	1,963,288.00
10	Check box if the aggregate amount in row (9) excludes certain shares (See Instructions)
	☐
11	Percent of class represented by amount in row (9)
	1.97 %
12	Type of Reporting Person (See Instructions)
	IA, PN

Comment for Type of Reporting Person: Includes 1,200,000 Ordinary Shares issuable upon exercise of the Reported Warrants (as defined in Item 2(a)).

SCHEDULE 13G

CUSIP No. G2662B103

1	Names of Reporting Persons
	Ryan M. Lane
	Check the appropriate box if a member of a Group (see instructions)
2	☐ (a)
	☐ (b)
3	Sec Use Only
4	Citizenship or Place of Organization
	UNITED STATES
	Sole Voting Power
5	0.00
Number of Shares Beneficially Owned by Each Reporting Person With:	Shared Voting Power
6	1,963,288.00
	Sole Dispositive Power
7	0.00
	Shared Dispositive Power
8	1,963,288.00
9	Aggregate Amount Beneficially Owned by Each Reporting Person
	1,963,288.00

10	Check box if the aggregate amount in row (9) excludes certain shares (See Instructions)
	☐
	Percent of class represented by amount in row (9)
11	1.97 %
	Type of Reporting Person (See Instructions)
12	HC, IN

Comment for Type of Reporting Person: Includes 1,200,000 Ordinary Shares issuable upon exercise of the Reported Warrants.

SCHEDULE 13G

CUSIP No. G2662B103

	Names of Reporting Persons
1	Martin D. Hoe
	Check the appropriate box if a member of a Group (see instructions)
2	☐ (a)
	☐ (b)
3	Sec Use Only
	Citizenship or Place of Organization
4	UNITED STATES
	Sole Voting Power
5	0.00
	Shared Voting Power
6	1,963,288.00
	Sole Dispositive Power
7	0.00
	Shared Dispositive
8	Power
	1,963,288.00
	Aggregate Amount Beneficially Owned by Each Reporting Person
9	1,963,288.00
	Check box if the aggregate amount in row (9) excludes certain shares (See Instructions)
10	☐
	Percent of class represented by amount in row (9)
11	1.97 %
	Type of Reporting Person (See Instructions)
12	HC, IN

Comment for Type of Reporting Person: Includes 1,200,000 Ordinary Shares issuable upon exercise of the Reported Warrants.

SCHEDULE 13G

Item 1.

- (a) Name of issuer:
Critical Metals Corp.
Address of issuer's principal executive offices:
- (b) 32 Harrogate Street West Leederville Australia C3 66007

Item 2.

Name of person filing:

This statement is filed by the entities and persons listed below, who are collectively referred to herein as "Reporting Persons," with respect to the Ordinary Shares, par value \$0.001 per share (the "Ordinary Shares") and the Ordinary Shares issuable upon exercise of warrants (the "Reported Warrants") of Critical Metals Corp., a British Virgin Islands exempted company (the "Company"): (i) Empery Asset Management, LP (the "Investment Manager"), with respect to the Ordinary Shares held by, and the Ordinary Shares issuable upon exercise of the Reported Warrants held by, funds to which the Investment Manager serves as investment manager (the "Empery Funds"); (ii) Mr. Ryan M. Lane ("Mr. Lane"), with respect to the Ordinary Shares held by, and the Ordinary Shares issuable upon exercise of the Reported Warrants held by, the Empery Funds; and (iii) Mr. Martin D. Hoe ("Mr. Hoe"), with respect to the Ordinary Shares held by, and the Ordinary Shares issuable upon exercise of the Reported Warrants held by, the Empery Funds. The Investment Manager serves as the investment manager to each of the Empery Funds. Each of Mr. Lane and Mr. Hoe (the "Reporting Individuals") is a Managing Member of Empery AM GP, LLC (the "General Partner"), the general partner of the Investment Manager.

Address or principal business office or, if none, residence:

- (b) The address of the business office of each of the Reporting Persons is: 1 Rockefeller Plaza, Suite 1205 New York, New York 10020
Citizenship:
- (c) Citizenship is set forth in Row 4 of the cover page for each Reporting Person hereto and is incorporated herein by reference for each such Reporting Person.
Title of class of securities:
- (d) Ordinary Shares, \$0.001 par value per share
CUSIP No.:
- (e) G2662B103

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. 78o);
- (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 associations 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). If filing as a non-U.S. institution in accordance with § 240.13d-1(b)(1)(ii)(J), please specify the type of institution:
- (k) ☐ Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K).

Item 4. Ownership

- (a) Amount beneficially owned:

The information required by Item 4(a) is set forth in Row 9 of the cover page for each of the Reporting Persons and is incorporated herein by reference. The percentage set forth in this Schedule 13G/A is calculated based upon an aggregate of 98,602,178 Ordinary Shares outstanding as of April 25, 2025, as reported in the Company's Prospectus Supplement on Form 424(b)(3) filed with the Securities and Exchange Commission on April 25, 2025, and assumes the exercise of the Reported Warrants. The Investment Manager, which serves as the investment manager to the Empery Funds, may be deemed to be the beneficial owner of all Ordinary Shares held by, and the Ordinary Shares issuable upon exercise of the Reported Warrants held by, the Empery Funds. Each of the Reporting Individuals, as Managing Members of the General Partner of the Investment Manager with the power to exercise investment

discretion, may be deemed to be the beneficial owner of all of the Ordinary Shares held by, and the Ordinary Shares issuable upon exercise of the Reported Warrants held by, the Empery Funds. The foregoing should not be construed in and of itself as an admission by any Reporting Person as to beneficial ownership of all Ordinary Shares owned by another Reporting Person. Each of the Empery Funds and the Reporting Individuals hereby disclaims any beneficial ownership of any such Ordinary Shares.

Percent of class:

(b)

1.97% %

(c)

Number of shares as to which the person has:

(i) Sole power to vote or to direct the vote:

The information required by Item 4(c)(i) is set forth in Row 5 of the cover page for each of the Reporting Persons and is incorporated herein by reference.

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

The information required by Item 4(c)(ii) is set forth in Row 6 of the cover page for each of the Reporting Persons and is incorporated herein by reference.

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

The information required by Item 4(c)(iii) is set forth in Row 7 of the cover page for each of the Reporting Persons and is incorporated herein by reference.

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

The information required by Item 4(c)(iv) is set forth in Row 8 of the cover page for each of the Reporting Persons and is incorporated herein by reference.

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

☒ Ownership of 5 percent or less of a class

Item 6. Ownership of more than 5 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. Certifications:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and 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, other than activities solely in connection with a nomination under ?? 240.14a-11.

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.

Empery Asset Management, LP

Signature: /s/ Ryan M. Lane

Name/Title: By: Empery AM GP, LLC, its General Partner,
By: Ryan M. Lane, its Managing Member

Date: 07/24/2025

Ryan M. Lane

Signature: /s/ Ryan M. Lane

Name/Title: Ryan M. Lane, individually

Date: 07/24/2025

Martin D. Hoe

Signature: /s/ Martin D. Hoe

Name/Title: Martin D. Hoe, individually

Date: 07/24/2025