UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934

Arcadium Lithium PLC

Alcadium Litilium I LC	
(Name of Issuer)	
COMMON STOCK	
(Title of Class of Securities)	
G0508H110	
(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:	
[X] 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 class of securities, and for any subsequent amendment containing information which would alter the disclosures provided cover page.	
The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to the provisions of the Act (however, see the Notes).	
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CUS	IP No.	G	0508H110				
1.	I.R.S. Id Van Ecl	mes of Reporting Persons S. Identification Nos. of above persons (entities only) n Eck Associates Corporation 6 Third Ave 9th Floor, New York, New York 10017					
2. (a) (b)	Check th	Check the Appropriate Box if a Member of a Group (See Instructions) N/A					
3	SEC Us	e Only	ī				
4.	Citizens	hip or	Place of Organization: D	Delaware			
Num Shar	iber of es	5.	Sole Voting Power	21,620,944 common shares			
	eficially	6.	Shared Voting Power	None			
Each	ed by orting	7.	Sole Dispositive Power	21,620,944 common shares			
_	on With	8.	Shared Dispositive Power	None			
9.	funds a	nd oth		Each Reporting Person 21,620,944 Common Shares are held within mutual by Van Eck Associates Corporation, none of which individually owns more			
10.	Check if	the A	ggregate Amount in Row (9)	Excludes Certain Shares (See Instructions) N/A			
11.	Percent	of Cla	ss Represented by Amount in	n Row (9) 6.19%			
12.	Type of	Repor	ting Person (See Instructions	s) IA			
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Item	1.	. (a)	Name of Issuer Arcadium Lithium PLC						
Item	1.	. (b)	Address of Issuer's Principal Executive Offices Shannon Airport house, Gateway Hub, Suite 12 Channon, Clare 70 Ireland						
Item	2.	. (a)	Name of Person Filing Van Eck Associates Corporation						
Item	2.	. (b)	Address of Principal Business Office or, if none, Residence 666 Third Ave 9th Floor, New York, New York 10017						
Item	2.	. (c)	Citizenship or Place of Organization: Delaware						
Item	2.	. (d)	Title of Class of Securities Common Shares						
Item 2. (e)		. (e)	CUSIP Number Not Applicable						
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:						
(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)	[[X]	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 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)	[]	Group, in accordance with Rule 13d-1(b)(1)(ii)(J).						
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Item 4. Ownership.

- (a) Amount beneficially owned: 21,620,944 Common Shares
- (b) Percent of class: **6.19%**
- (c) Number of shares as to which the person has:
 - (i) Sole power to vote or to direct the vote 21,620,944 Common Shares
 - (ii) Shared power to vote or to direct the vote **None**
 - (iii) Sole power to dispose or to direct the disposition of 21,620,944 Common Shares
 - (iv) Shared power to dispose or to direct the disposition of None

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

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 I certify that, to the best of my 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 my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

November 14, 2024
Date
/S/ Ashley Sousa
Signature Ashley Sousa, Manager

Name/Title

The original statement shall be signed by each person on whose behalf the statement is filed or his authorized representative. If the statement is signed on behalf of a person by his authorized representative other than an executive officer or general partner of the filing person, evidence of the representative's authority to sign on behalf of such person shall be filed with the statement, provided, however, that a power of attorney for this purpose which is already on file with the Commission may be incorporated by reference. The name and any title of each person who signs the statement shall be typed or printed beneath this signature.

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