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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

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**SCHEDULE 13G**  
Under the Securities Exchange Act of 1934  
(Amendment No. )\*

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**LanzaTech Global, Inc.**  
(Name of Issuer)

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**Common Stock, par value \$0.0001 per share**  
(Title of Class of Securities)

**51655R101**  
(CUSIP Number)

**February 8, 2023**  
(Date of Event Which Requires Filing of this Statement)

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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 a 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, see the Notes).

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1	NAMES OF REPORTING PERSONS  Guardians of New Zealand Superannuation  I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)  98-0576189		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/>		
3	SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION  New Zealand		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER  33,263,337	
	6	SHARED VOTING POWER  0	
	7	SOLE DISPOSITIVE POWER  33,263,337	
	8	SHARED DISPOSITIVE POWER  0	
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  33,263,337		
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES <input type="checkbox"/>		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)  16.95% <sup>(1)</sup>		
12	TYPE OF REPORTING PERSON  OO		

(1) Calculated based upon 196,222,737 shares of the Issuer's Common Stock outstanding as of February 8, 2023, as reported in the Issuer's Form S-1 filed with the Securities and Exchange Commission ("SEC") on February 13, 2023..

**Item 1** (a) Name of Issuer:

LanzaTech Global, Inc.

**Item 1** (b) Address of Issuer's Principal Executive Offices:

8045 Lamon Avenue, Suite 400  
Skokie, Illinois 60077

**Item 2** (a) Name of Person Filing:

Guardians of New Zealand Superannuation (the "Reporting Person").

**Item 2** (b) Address of Principal Business Office or, If None, Residence; Citizenship:

The registered address of the Reporting Person is:

PO BOX 106 607  
Auckland 1143  
New Zealand

**Item 2** (c) Citizenship:

New Zealand

**Item 2** (d) Title of Class of Securities:

Common Stock

**Item 2** (e) CUSIP Number:

51655R101

**Item 3.** Statement Filed Pursuant to Rule 13d-1(b) or 13d-2(b) or (c):

Not applicable.

**Item 4.** Ownership

- (a) Amount Beneficially Owned by each Reporting Person: See Row 9 of cover page.
- (b) Percent of Class Beneficially Owned by each Reporting Person: See Row 11 of cover page.
- (c) Number of shares as to which each Reporting Person has:
  - i. Sole power to vote or to direct the vote: See Row 5 of cover page.
  - ii. Shared power to vote or to direct the vote: See Row 6 of cover page.
  - iii. Sole power to dispose of or to direct the disposition of: See Row 7 of cover page.
  - iv. Shared power to dispose or to direct the disposition of: See Row 8 of cover page.

The Common Stock reported herein is held by the Reporting Person as manager and administrator of the New Zealand Superannuation Fund being property of Her Majesty the Queen in right of New Zealand and managed by the Reporting Person.

**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 5 percent of the class of securities, check the following .

**Item 6.** Ownership of More Than Five Percent on Behalf of Another Person

Not applicable.

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**Item 7.** Identification and Classification of 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

Not applicable.

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**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.

Dated: February 21, 2023

Guardians of New Zealand Superannuation

By: /s/ Sarah Gold

Sarah Gold

Authorized Signatory

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