

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL	
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>Summers Zarath</u> (Last) (First) (Middle) 8045 LAMON AVENUE SUITE 400 (Street) SKOKIE IL 60077 (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 07/02/2023	3. Issuer Name and Ticker or Trading Symbol <u>LanzaTech Global, Inc. [LNZA]</u>	
		4. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) Chief Science Officer	5. If Amendment, Date of Original Filed (Month/Day/Year)
		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person	

Table I - Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
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Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)	4. Conversion or Exercise Price of Derivative Security	5. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date				
Stock Options	(1)	01/27/2033	Common Stock	43,746	9.97	D
Stock Options	(2)	05/02/2033	Common Stock	114,503	3.28	D
Restricted Stock Units	(3)	(3)	Common Stock	135,261	(3)	D

Explanation of Responses:

- 25% of the options are vested and exercisable, the remaining will vest in equal installments of 25% on each of January 27, 2024, January 27, 2025, and January 27, 2026.
- Subject to the terms of the Stock Option Agreement, the shares subject to the stock option will vest and become exercisable in approximately three equal annual installments, with such first installment vesting on March 6, 2024.
- Each Restricted Stock Unit (RSU) represents a contingent right to receive one share of common stock of LanzaTech Global, Inc. (the "Company"). Subject to the terms of the RSU Agreement, the RSUs will vest in approximately three equal annual installments, with such first installment vesting on March 6, 2024.

Remarks:

Exhibit 24.1 - Power of Attorney

/s/ Joseph Blasko, as Attorney-in-Fact

07/12/2023

** Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, see Instruction 5 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.