

OMB APPROVAL	
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

1. Name and Address of Reporting Person* <u>Holmgren Jennifer</u>			2. Issuer Name and Ticker or Trading Symbol <u>LanzaTech Global, Inc. [LNZA]</u>			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) Chief Executive Officer		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 05/02/2023					
8045 LAMON AVENUE, SUITE 400			4. 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		
(Street)								
SKOKIE	IL	60077						
(City)	(State)	(Zip)	Rule 10b5-1(c) Transaction Indication					
<input type="checkbox"/> Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.								

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
						Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Restricted Stock Units	(1)	05/02/2023		A	300,000	(1)	(1)	Common Stock	300,000	\$0	300,000	D	
Performance Stock Units	(2)	05/02/2023		A	2,600,000	(2)	(2)	Common Stock	2,600,000	\$0	2,600,000	D	
Stock Options	\$3.28	05/02/2023		A	1,145,038	(3)	05/02/2033	Common Stock	1,145,038	\$0	1,145,038	D	

Explanation of Responses:

- 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.
- Each Performance-based Restricted Stock Unit (PSU) represents a contingent right to receive one share of common stock of the Company. Subject to the terms of the PSU Agreement, the PSUs are contingent on satisfying both a performance-based and a time-based vesting condition. The performance-based vesting condition is satisfied if the average closing price of the Company's stock reaches \$11.50 using a 20-day look-back period, which period may begin no earlier than 151 days following February 8, 2023. The PSUs will time-vest in approximately three equal annual installments, with such first installment time-vesting on February 10, 2024. Both vesting conditions must be met by February 10, 2028 or else the PSUs will be forfeited.
- 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.

Remarks:

/s/ Joseph Blasko, as Attorney-in-Fact 05/04/2023

** 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 4 (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.