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

FORM 8-K

CURRENT REPORT

PURSUANT TO SECTION 13 OR 15(D) OF THE SECURITIES EXCHANGE ACT OF 1934

Date of Report (Date of earliest event reported): March 6, 2023

LanzaTech Global, Inc. (Exact name of registrant as specified in its charter)

> 001-40282 (Commission File Number)

Delaware (State or other jurisdiction of incorporation)

60077

(Zip Code)

92-2018969

(I.R.S. Employer Identification No.)

8045 Lamon Avenue, Suite 400 Skokie, Illinois

(Address of principal executive offices)

(847) 324-2400 (Registrant's telephone number, including area code)

Not Applicable

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

Written communication pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

Pre-commencements communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbols	Name of each exchange on which registered
Common Stock, par value \$0.0001 per share	LNZA	The Nasdaq Stock Market LLC
Redeemable Warrants, each whole warrant exercisable for one share of	LNZAW	The Nasdaq Stock Market LLC
Common Stock at an exercise price of \$11.50		-

X Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. П

Item 7.01. Regulation FD Disclosure.

On March 6-7, 2023, Jennifer Holmgren, Chief Executive Officer of LanzaTech Global, Inc. (the "Company") will be speaking at CERAWeek in Houston, Texas. CERAWeek by S&P Global is the world's premier energy conference and features prominent speakers from energy, policy, technology, and financial industries. On March 6, Ms. Holmgren will present to guests attending the Innovation Agora Pogram (the "Innovation Agora Program"). She will have 15 minutes to present her slides in a talk titled Carbon Recycling for a New Carbon Economy, followed by approx. 8 minutes of Q&A. On March 7, Ms. Holmgren will present during a 30-minute presentation to guests attending the Oxy/OLCV/IPointFive Agora House (the "Oxy Presentation"). A copy of Ms. Holmgren's Oxy Presentation, which incorporates the slides presented at the Innovation Agora Program, is furnished as Exhibit 99.1.

The information in this Item 7.01, including Exhibit 99.1, is being furnished and shall not be deemed "filed" for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise be subject to liabilities under that section, and shall not be deemed to be incorporated by reference into any filings of the Company under the Securities Act of 1933, as amended, or the Exchange Act, regardless of any general incorporation language in such filings. This Current Report on Form 8-K shall not be deemed an admission as to the materiality of any information in this Item 7.01, including Exhibit 99.1.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

Exhibit Number	Description
99.1	Oxy Presentation, on March 6-7, 2023
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized. Dated: March 6, 2023

LANZATECH GLOBAL, INC.

By:	/s/ Joseph Blasko
Name:	Joseph Blasko
Title:	General Counsel and Corporate Secretary

3



Disclaimers

Certain statements in this presentation (the "Presentation") may be considered forward-looking statements. Forward-looking statements generally relate to future events or LanzaTech Global, Inc.'s (the "Company") future financial or operating performance. For example, statements concerning the following include forward-looking statements: the potential success, cost and timing of the Company's technology platform development activities; the potential attributes and benefits of the Company's technology platform; the Company's ability to compete with other companies currently marketing or engaged in the development of similar technologies; the size and growth potential of the markets for the Company's technology and the Company's ability to serve those markets; the rate and degree of market acceptance of the Company's technology; and the Company's ability to expand its business. In some cases, you can identify forward-looking statements by terminology such as "may", "should", "expect", "intend", "will", "estimate", "anticipate", "believe", "predict", "potential" or "continue", or the negatives of these terms or variations of them, or similar terminology. Such forward-looking statements are subject to risks, uncertainties, and other factors which could cause actual results to differ materially from those expressed or implied by such forwardlooking statements. These forward-looking statements are based upon estimates and assumptions that, while considered reasonable by the Company and its management, as the case may be, are inherently uncertain. New risks and uncertainties may emerge from time to time, and it is not possible to predict all risks and uncertainties. Factors that may cause actual results to differ materially from current expectations include, but are not limited to, various factors beyond management's control, including general economic conditions and other risks, uncertainties and factors associated with companies, such as the Company, that are engaged in developing proprietary carbon capture technology; changes to environmental laws and regulations; changes to ethanol regulation; and overall business and economic conditions affecting the global carbon capture, utilization and storage industry. Nothing in this Presentation should be regarded as a representation by any person that the forward-looking statements set forth herein will be achieved or that any of the contemplated results of such forward-looking statements will be achieved. You should not place undue reliance on forward-looking statements in this Presentation, which speak only as of the date they are made and are qualified in their entirety by reference to the cautionary statements herein. Except as required by law, the Company undertakes no duty to update these forward-looking statements.

















1st Refinery Gas to Ethanol Project in the World 1st Project in India 1st Project to use CO₂ as a Feedstock





In Commissioning 1st Ethanol Produced

1





Biology Can Do Things No Other Human-made Technology Or Chemistry Can Do



Fermentation Transforms Chaotic Inputs into Selective Outputs









Feedstock Flexibility

27			H ₂ :CO Ratio	Carbon Efficiency	Operating at Scale
Steel and Ferroalloy Gas	СО	$6 \text{ CO} + 3 \text{ H}_2\text{O} \rightarrow \text{C}_2\text{H}_5\text{OH} + 4 \text{ CO}_2$	0:1	33.3%	\checkmark
MSW Biomass	CO + H ₂	$3 H_2 + 3 CO \rightarrow C_2H_5OH + CO_2$	1:1	66.7%	(
	CO + H ₂	$4 H_2 + 2 CO \rightarrow C_2H_5OH + H_2O$	2:1	100%	V
Refinery Gas	$CO + H_2 + CO_2$	$5 \text{ H}_2 + 1 \text{ CO} + 1 \text{ CO}_2 \rightarrow \text{C}_2\text{H}_5\text{OH} + 2 \text{ H}_2\text{O}$	5:1	100%	\checkmark
CO.+H.	$H_2 + CO_2$	$6 \text{ H}_2 + 2 \text{ CO}_2 \rightarrow \text{C}_2\text{H}_5\text{OH} + 3 \text{ H}_2\text{O}$	1:0	100%	

CO₂ to Ethanol Project with IndianOil





A Technology Today, Ready for the Future





Ethanol: A Starting Point for Multiple Products



Building Block of the Future

Sustainable Aviation Fuels Market Opportunity







Ethanol: A Starting Point for Multiple Pathways



Building Block of the Future











CarbonSmart[™] Pathways to MEG for PET Production






LanzaTech's World-First Anaerobic Biofoundry



Enabling Carbon-Negative Chemical Production from Industrial Gases





CarbonSmart[™] Pathways to MEG for PET Production





Case Study: Ethylene via Ethanol Pathway







What Do You Want To Make Today?



Providing Solutions To Industry Leaders Across Sectors



Feedstock Flexibility

E P			H ₂ :CO Ratio	Carbon Efficiency	Operating at Scale
Steel and Ferroalloy Gas	СО	$6 \text{ CO} + 3 \text{ H}_2\text{O} \rightarrow \text{C}_2\text{H}_5\text{OH} + 4 \text{ CO}_2$	0:1	33.3%	\checkmark
MSW Biomass	CO + H ₂	$3 H_2 + 3 CO \rightarrow C_2H_5OH + CO_2$	1:1	66.7%	
	CO + H ₂	$4 H_2 + 2 CO \rightarrow C_2 H_5 OH + H_2 O$	2:1	100%	V
Refinery Gas	$CO + H_2 + CO_2$	$5 \text{ H}_2 + 1 \text{ CO} + 1 \text{ CO}_2 \rightarrow \text{C}_2\text{H}_5\text{OH} + 2 \text{ H}_2\text{O}$	5:1	100%	\checkmark
CO.+#	$H_2 + CO_2$	6 H ₂ + 2 CO ₂ → C ₂ H ₅ OH + 3 H ₂ O	1:0	100%	



















"We should not make our vision just different layers of climate tragedy." Tom Chi











New technologies shape our belief of what's possible and drive rapid transformation

51













How long Until Computers Have the Same Power as a Human Brain?

Moore's Law: Computer processing power doubles every 18months.



"You never change things by fighting the existing reality. To change something, build a new model that makes the existing model obsolete."

Buckminster Fuller





Every waste resource



Including CO₂
















