

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>Atalaya Capital Management LP</u> (Last) (First) (Middle) ONE ROCKEFELLER PLAZA, 32ND FLOOR (Street) NEW YORK NY 10020 (City) (State) (Zip)	2. Date of Event Requiring Statement (Month/Day/Year) 02/06/2023	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 <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)	5. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person <input checked="" type="checkbox"/> 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)
Common Stock	2,926,514 ⁽¹⁾	I	By ACM ARRT H LLC ⁽¹⁾

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	Title	Amount or Number of Shares			

1. Name and Address of Reporting Person*
Atalaya Capital Management LP
 (Last) (First) (Middle)
 ONE ROCKEFELLER PLAZA, 32ND FLOOR
 (Street)
 NEW YORK NY 10020
 (City) (State) (Zip)

1. Name and Address of Reporting Person*
ACM ARRT H LLC
 (Last) (First) (Middle)
 ONE ROCKEFELLER PLAZA
 32ND FLOOR
 (Street)
 NEW YORK NY 10020
 (City) (State) (Zip)

Explanation of Responses:

1. The securities are held directly by ACM ARRT H LLC, of which Atalaya Capital Management LP ("ACM") is the Manager and has investment and dispositive power over these shares.

Atalaya Capital
Management LP By: /s/ 02/14/2023
Drew Phillips, Authorized
Signatory.
ACM ARRT H LLC By:
/s/ Drew Phillips, 02/14/2023
Authorized Signatory.

** 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.