200 West Street I New York, NY 10282-2198 Tel: 212-902-1000 I Fax: 212-902-3000

Goldman

SaellS

May 24, 2022

U.S. Securities and Exchange Commission Office of the Secretary 100 F Street, N .E. Washington, D.C. 20549

RE: AMCI Acquisition Corp. II

## Ladies and Gentlemen:

Goldman Sachs & Co. LLC ("Goldman Sachs") hereby submits the enclosed resignation letter

(the "Resignation Letter"). The Resignation Letter was previously delivered to

Acquisition Corp. II (the "Company") to inform it that Goldman Sachs has resigned and ceased

to act as placement agent and capital markets advisor to the Company and any related capacity,

relationship or role in connection with the proposed business combination of the Company and

LanzaTech NZ Inc., and that Goldman Sachs will not be responsible for any part of the

Company's Registration Statement on Form S-4 (File No. 333-264811), including any

amendments thereto or documents incorporated therein (the "Registration Statement").

This letter is being furnished to the U.S. Securities and Exchange Commission (the

"Commission") in accordance with Section 1 1(b)(1) of the Securities Act of 1933, as amended,

to notify the Commission that Goldman Sachs will not be responsible for the contents of the

Registration Statement.

If you should have any questions regarding these matters, please contact the undersigned by

phone at (212) 902-4012 or by email at daniel.young@gs.com.

Securities and Investment Services Provided by Goldman Sachs U.S. Securities and Exchange Commission May 24, 2022

Page 2

& Co. LLC

Sincerely,

N aine: Daniel M. Young Title: Managing Director

cc: AMCI Acquisition Corp. II

Encl.
PERSONAL AND CONFIDENTIAL

May 20, 2022

Nimesh Patel Chief Executive Officer AMCI Acquisition Corp. II 600 Steamboat Road Greenwich, CT 06830

Re: Placement Agent and Capital Markets Advisor Resignation

## Dear Nimesh:

Goldman Sachs & Co. LLC ("Goldman Sachs") writes to inform you that Goldman Sachs hereby

resigns and ceases to act as placement agent and capital markets advisor to  ${\tt AMCI}$  Acquisition

Corp. II (the "Company") and any related capacity, relationship or role, and will not act in any

other capacity, relationship or role, with or for the Company, LanzaTech NZ Inc. (the "Target"),

any affiliate of the Company or the Target (each, an "Affiliate'), or any entity formed or caused

to be formed by the Company, the Target or an Affiliate, in each case in connection with the

proposed business combination of AMCI Acquisition Corp. II and the Target, effective

immediately, and that Goldman Sachs will not be responsible for any part of the Company  $^{\prime}$  s

Registration Statement on Form S-4 (File No. 333-264811 ), including any amendments thereto or

documents incorporated therein (the "Registration Statement").

This letter is being furnished to you in accordance with Section 11 (b)(1) of the Securities  $\mbox{Act}$  of

1933, as amended, to notify you that Goldman Sachs will not be responsible for the contents of

the Registration Statement. This letter should not be construed as an admission that  $\operatorname{Goldman}$ 

Sachs is or was an underwriter, as that term is defined in Section  $2(a)(1\ 1)$  of the Securities Act of 1933.

(GOLDMAN SACHS & CO. LLC)

Name: Eduardo Manzur Title: Managing Director