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

SCHEDULE 13G/A

INFORMATION TO BE INCLUDED IN STATEMENTS PURSUANT TO RULES 13d-1(b),(c) AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO 13d-2 UNDER THE SECURITIES EXCHANGE ACT OF 1934*

(Amendment No. 1)

Adaptive Biotechnologies Corporation

(Name of Issuer)

<u>Common stock</u> (Title of Class of Securities)

> 00650F109 (CUSIP Number)

<u>December 31, 2020</u> (Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

☐ Rule 13d-1(d)

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, *see* the *Notes*).

^{*} The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

	CUSIP No. 006		13G/A	Page 2 of 17 Pages
1	NAME OF REP			
	S.S. OR I.R.S. II	DENTIF	CATION NO. OF ABOVE PERSON (ENTITIES ONLY)	
	Viking Global Ir	nvestors I	.P	
2	CHECK THE A	PPROPR	IATE BOX IF A MEMBER OF A GROUP*	
				(a) 🗖
				(a) □ (b) ⊠
3	SEC USE ONLY	Y		(0) =
3				
	CITIZENCHID	OD DI AC	E OF ORGANIZATION	
4	CITIZENSHIP	JK PLAC	E OF ORGANIZATION	
	Delaware			
		5	SOLE VOTING POWER	
			0	
NUMBER OF		6	SHARED VOTING POWER	
	SHARES BENEFICIALLY		29,993,708	
	WNED BY			
рг	EACH EPORTING	7	SOLE DISPOSITIVE POWER	
	PERSON		0	
	WITH			
		8	SHARED DISPOSITIVE POWER	
			29,993,708	
9	AGGREGATE A	AMOUN'	BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	29,993,708			
10	CHECK BOX II	F THE A	GGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHAR	ES* □
11	PERCENT OF C	CLASS R	EPRESENTED BY AMOUNT IN ROW 9	
11	21.9%			
	∠1. 9 %			
12	TYPE OF REPO	ORTING	PERSON	
	PN			

	CUSIP No. 006		13G/A	Page <u>3</u> of 17 Pages			
1	NAME OF REPORTING PERSON						
	S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY)						
	Viking Global Po	erformance LLC	K IF A MEMBER OF A GROUP*				
2	CHECK THE A	PPROPRIATE BOZ	CIF A MEMBER OF A GROUP				
	(a) □ (b) ⊠						
3	SEC USE ONLY						
4	CITIZENSHIP (OR PLACE OF OR	GANIZATION				
	Delaware						
		5 SOLE V	OTING POWER				
		0					
	JMBER OF						
BEN	SHARES IEFICIALLY WNED BY	CIALLY 22,002,189					
	EACH	7 SOLE I	DISPOSITIVE POWER				
	EPORTING PERSON WITH	0					
			D DISPOSITIVE POWER				
		22,002,	189				
9	AGGREGATE A	MOUNT BENEFI	CIALLY OWNED BY EACH REPORTING PERSON				
	22,002,189						
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES * □						
11	PERCENT OF C	CLASS REPRESEN	TED BY AMOUNT IN ROW 9				
	16.1%						
12	TYPE OF REPO	RTING PERSON					
12	00						

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1	NAME OF REPORTING PERSON			OVE DEDSON (ENTITIES ONLY)				
	I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY)							
	Viking Global Equities II LP							
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*							
	(a) □ (b) ⊠							
3	SEC USE ONLY							
	CITIZENGUID	OD DI A CI	E OF ORCA	NIZATION				
4	CITIZENSHIP	OK PLACI	E OF ORGA	NIZATION				
	Delaware	<u>, </u>						
		5	SOLE VO	ΓING POWER				
NUMBER OF SHARES BENEFICIALLY OWNED BY			0					
		6	SHARED '	VOTING POWER				
			440,046					
	EACH		SOLE DIS	POSITIVE POWER				
REPORTING PERSON WITH			0					
			SHARED I	DISPOSITIVE POWER				
			440,046					
9	AGGREGATE A	AMOUNT	BENEFICIA	ALLY OWNED BY EACH REPORTING PER	SON			
	440,046							
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* □							
11	PERCENT OF	CLASS RE	PRESENTE	ED BY AMOUNT IN ROW 9				
	0.3%							
12	TYPE OF REPO	ORTING P	ERSON*					
	PN							

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1	NAME OF REP							
	S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY)							
	Viking Global Equities Master Ltd.							
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*							
	(a) □							
3	(b) ⊠ SEC USE ONLY							
3								
4	CITIZENSHIP	OR PLACE OF	PRGANIZATION					
	Cayman Islands							
	J		E VOTING POWER					
		0						
NUMBER OF SHARES BENEFICIALLY OWNED BY		CILA	RED VOTING POWER					
		0						
		21,5	2,143					
1	EACH	7 SOI	E DISPOSITIVE POWER					
	REPORTING PERSON							
	WITH	GH.	DED DYGDOGYTY IE DOLLED					
	8		RED DISPOSITIVE POWER					
			2,143					
9	AGGREGATE A	AMOUNT BEN	FICIALLY OWNED BY EACH REPORTING PER	SON				
	21,562,143							
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES* □							
11	PERCENT OF	CLASS REPRES	ENTED BY AMOUNT IN ROW 9					
	15.8%							
12	TYPE OF REPO	ORTING PERSO	N					
12								
	СО							

	CUSIP No. 0065		13G/A	Page <u>6</u> of 17 Pages				
1		PORTING PERSON	NO OF ABOVE DEDSON (ENTITIES ONLY)					
	S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY)							
	Viking Long Fund GP LLC CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*							
2	CHECK THE A	PPROPRIATE BO.	A IF A MEMIDER OF A GROUP					
	(a) □ (b) ⊠							
3	SEC USE ONLY							
4	CITIZENSHIP (OR PLACE OF OR	GANIZATION					
	Delaware							
		5 SOLE Y	OTING POWER					
		0						
NUMBER OF SHARES BENEFICIALLY OWNED BY		SHARI	D VOTING POWER					
		0						
		7,991,5	19					
	EACH PORTING	7 SOLE I	DISPOSITIVE POWER					
P	ERSON WITH	0						
	WIIH	GHADI	D DIGDOGUENIE DONIED					
		8 SHARE	D DISPOSITIVE POWER					
	7,991,5		19					
9	AGGREGATE A	AMOUNT BENEFI	CIALLY OWNED BY EACH REPORTING PERSON	Ī				
	7,991,519							
10	CHECK BOX I	F THE AGGREGA	TE AMOUNT IN ROW (9) EXCLUDES CERTAIN SI	HARES* □				
10								
11	PERCENT OF O	CLASS REPRESEN	TED BY AMOUNT IN ROW 9					
	5.8%							
12	TYPE OF REPO	ORTING PERSON						
	00							

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1	NAME OF REI				
	I.R.S. IDENTIF	FICATIO	N NO. OF A	ABOVE PERSON (ENTITIES ONLY)	
	Viking Long Fu	ınd Maste	er Ltd.		
2				K IF A MEMBER OF A GROUP*	
					(a) 🗆
					(a) □ (b) ⊠
3	SEC USE ONL	Y			
4	CITIZENSHIP	OR PLA	CE OF OR	GANIZATION	
4					
	Cayman Islands		COLEA	ACTING DOWER	
		5	SOLE	OTING POWER	
	NUMBER OF		0		
	SHARES BENEFICIALLY		CHADE	D VOTING POWER	
	WNED BY	6	SHAKE	D VOIING FOWER	
DI	EACH		7,991,5	19	
	EPORTING PERSON		SOLET	DISPOSITIVE POWER	
	WITH	7		7.2.2.30.1.1.2.1.3.1.3.1.	
			0		
		8	SHARE	D DISPOSITIVE POWER	
			7,991,5	19	
9	AGGREGATE	AMOUN	T BENEFI	CIALLY OWNED BY EACH REPORTING PERSOR	N
	7,991,519				
10	CHECK BOX I	F THE A	.GGREGAT	TE AMOUNT IN ROW (9) EXCLUDES CERTAIN S	SHARES* [_]
11	PERCENT OF	CLASS I	REPRESEN	ITED BY AMOUNT IN ROW 9	
	5.8%				
12	TYPE OF REP	ORTING	PERSON*		
12			2213011		
	CO				

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1	NAME OF REPORTING REPORT							
			or Above reason (Entitles oner)					
2		O. Andreas Halvorsen CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*						
2	CHECK THE	ALI KOLKIATI	BOX II' A MEMBER OF A GROOT					
				(a) □ (b) ⊠				
3	SEC USE ONI	Y		(6)				
4	CITIZENSHIP	OR PLACE O	ORGANIZATION					
	Norway							
		5 SC	LE VOTING POWER					
		0						
			ARED VOTING POWER					
	UMBER OF SHARES	6	93,708					
BEI	NEFICIALLY							
O	OWNED BY EACH	7 SO	LE DISPOSITIVE POWER					
	EPORTING	0						
	PERSON WITH	8 SI	ARED DISPOSITIVE POWER					
		8						
		29	93,708					
9	AGGREGATE	AMOUNT BE	EFICIALLY OWNED BY EACH REPORTING PER	SON				
	29,993,708							
10	CHECK BOX	IF THE AGGR	GATE AMOUNT IN ROW (9) EXCLUDES CERTAI	IN SHARES* □				
11	PERCENT OF	CLASS REPR	SENTED BY AMOUNT IN ROW 9					
11	21.9%							
12	TYPE OF REP	ORTING PERS)N*					
12	IN							
	11.4							

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1		PORTING PERSON FICATION NO. OF A	ABOVE PERSON (ENTITIES ONLY)			
	David C. Ott					
2	CHECK THE A	APPROPRIATE BOZ	X IF A MEMBER OF A GROUP*	(a) □ (b) ⊠		
3	SEC USE ONL	Y				
4	CITIZENSHIP OR PLACE OF ORGANIZATION United States					
S BENI OV RE	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH SOLE V 0 SHARE 29,993; 7 SOLE I 0		DISPOSITIVE POWER ED DISPOSITIVE POWER			
9	29,993,708		CIALLY OWNED BY EACH REPORTING PERSO			
10			TE AMOUNT IN ROW (9) EXCLUDES CERTAIN	SHAKES™ ⊔		
11	21.9%		ITED BY AMOUNT IN ROW 9			
12	TYPE OF REPO	ORTING PERSON*				

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	CUSIP No. 006	50F109		13G/A	Pag	e 10 of 17 Pages
1		FICATIO		PERSON (ENTITIES ONLY)	ļ	
	Rose S. Shabet		RIATE BOX IF A M	MEMBER OF A GROUP*		
2						(a)□ (b)⊠
3	SEC USE ONI	У				
4	CITIZENSHIP	OR PLA	CE OF ORGANIZA	ATION		
	United States					
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH		SHARED VOTI 29,993,708 SOLE DISPOSI 0	ING POWER			
9		AMOUN	T BENEFICIALLY	OWNED BY EACH REPORTIN	NG PERSON	
10	29,993,708 CHECK BOX	IF THE A	GGREGATE AMO	OUNT IN ROW (9) EXCLUDES (CERTAIN SHARES* □	
10				.,		
11		CLASS I	REPRESENTED BY	Y AMOUNT IN ROW 9		
	21.9% TYPE OF REP	ORTING	PFRSON*			
12	IN	ORIIIO	LICON			

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<u>Item 1(a)</u> .	Name of Issuer:					
	Adaptive Biotechnologies Corpor	ation				
<u>Item 1(b)</u> .	<u>Address of Issuer's Principal Executive Offices</u> :					
	1551 Eastlake Avenue East, Suite Seattle, Washington 98102	200				
<u>Item 2(a)</u> .	Name of Person Filing:					
	Viking Global Investors LP ("VGI"), Viking Global Performance LLC ("VGP"), Viking Global Equities II LP ("VGEII"), Viking Global Equities Master Ltd. ("VGEM"), Viking Global Equities Master Ltd. ("VGEM"), Viking Long Fund GP LLC ("VLFGP"), Viking Long Fund Master Ltd. ("VLFM"), O. Andreas Halvorsen, David C. Ott and Rose S. Shabet (collectively, the "Reporting Persons")					
<u>Items 2(b).</u>	(b). Address of Principal Business Office or, if none, Residence:					
	The business address of each of the	ne Reporting Persons is: 55 Railroad Avenue, Greenv	vich, Connecticut 06830.			
<u>Items 2(c).</u>	<u>Citizenship</u> :					
Cayman Islands		ited partnerships; VGP and VLFGP are Delaware lin Halvorsen is a citizen of Norway; and David C. Ott a				
<u>Item 2(d)</u> .	<u>Titles of Classes of Securities</u> :					
	Common stock ("Common Stock"	')				
<u>Item 2(e)</u> .	CUSIP NUMBER: 00650F109					
Item 3.	If This Statement is Filed Pursuan	tto Rule 13d-1(b), or 13d-2(b) or (c), Check Whether	er the Person Filing is a:			
	(a) Broker or dealer register	red under Section 15 of the Exchange Act				
	(b) Bank as defined in Section	on 3(a)(6) of the Exchange Act				
	(c) Insurance company as d	efined in Section 3(a)(19) of the Exchange Act				
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	(d)	☐ Investment company reg	gistered under Section 8 of the Investment Company	Act of 1940				
	(e)	☐ Investment Adviser regi	☐ Investment Adviser registered under Section 203 of the Investment Advisers Act of 1940: see Rule 13d-1(b)(1)(ii)(E)					
	(f)	☐ Employee Benefit Plan, Pension Fund which is subject to the provisions of the Employee Retirement Income Security Act of 1974 or Endowment Fund; see Rule 13d-1(b)(1)(ii)(F)						
	(g)	☐ Parent holding company	y, in accordance with Rule 13d-1(b)(1)(ii)(G).					
	(h)	☐ Savings Association as	defined in Section 3(b) of the Federal Deposit Insura	nce Act.				
	(i)	☐ Church Plan that is excl Act of 1940.	uded from the definition of an investment company u	under Section 3(c)(14) of the Investment Company				
	(j)		accordance with Rule 240.13d-1(b)(1)(ii)(J). If filing use specify the type of institution:	as a non-U.S. institution in accordance with Rule				
	(k)	☐ Group, in accordance w	ith Rule 240.13d-1(b)(1)(ii)(K).					
Item 4.	Owne	<u>ership</u>						
A. VGI								
	(a)	Amount beneficially ow	ned: 29,993,708					
	(b)	Percent of Class: 21.9%						
	(c)	Number of shares as to v	which such person has:					
		(ii) Shared power to (iii) Sole power to (iv) Shared power to	rote or to direct the vote: 0 to vote or to direct the vote: 29,993,708 to dispose or to direct the disposition of: 0 to dispose or to direct the disposition of: 29,993,708 to dispose or to VGEII, VGEM and VLFM. VGI has the	e authority to dispose of and vote the shares of				
			owned by VGEII, VGEM and VLFM. VGI does not					

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Based on Rule 13d-3 of the Securities Exchange Act of 1934, as amended (the "Act"), VGI may be deemed to beneficially own the shares of Common Stock directly held by VGEII, VGEM and VLFM.

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VGI beneficially owns 29,993,708 shares of Common Stock consisting of (i) 440,046 shares of Common Stock directly and beneficially owned by VGEII, (ii) 21,562,143 shares of Common Stock directly and beneficially owned by VGEM and (iii) 7,991,519 shares of Common Stock directly and beneficially owned by VLFM.

B. VGP

- (a) Amount beneficially owned: 22,002,189
- (b) Percent of Class: 16.1%
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or to direct the vote: 0
 - (ii) Shared power to vote or to direct the vote: 22,002,189
 - (iii) Sole power to dispose or to direct the disposition of: 0
 - (iv) Shared power to dispose or to direct the disposition of: 22,002,189

VGP, as the general partner of VGEII, has the authority to dispose of and vote the shares of Common Stock directly owned by VGEII. VGP serves as investment manager to VGEM and has the authority to dispose of and vote the shares of Common Stock directly owned by VGEM. VGP does not directly own any shares of Common Stock.

Based on Rule 13d-3 of the Act, VGP may be deemed to beneficially own the shares of Common Stock directly held by VGEII and VGEM.

VGP beneficially owns 22,002,189 of Common Stock consisting of (i) 440,046 shares of Common Stock directly and beneficially owned by VGEII and (ii) 21,562,143 shares of Common Stock directly and beneficially owned by VGEM.

C. VGEII

- (a) Amount beneficially owned: 440,046
- (b) Percent of Class: 0.3%
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or to direct the vote: 0
 - (ii) Shared power to vote or to direct the vote: 440,046
 - (iii) Sole power to dispose or to direct the disposition of: 0
 - (iv) Shared power to dispose or to direct the disposition of: 440,046

VGEII has the authority to dispose of and vote the shares of Common Stock directly owned by it, which power may be exercised by its general partner, VGP, and by VGI, an affiliate of VGP, which provides managerial services to VGEII.

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D. VGEM

(a) Amount beneficially owned: 21,562,143

(b) Percent of Class: 15.8%

- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or to direct the vote: 0
 - (ii) Shared power to vote or to direct the vote: 21,562,143
 - (iii) Sole power to dispose or to direct the disposition of: 0
 - (iv) Shared power to dispose or to direct the disposition of: 21,562,143

VGEM has the authority to dispose of and vote the shares of Common Stock directly owned by it, which power may be exercised by its investment manager, VGP, and by VGI, an affiliate of VGP, which provides managerial services to VGEM. Viking Global Equities LP (a Delaware limited partnership) and Viking Global Equities III Ltd. (a Cayman Islands exempted company), through its investment in VGE III Portfolio Ltd. (a Cayman Islands exempted company), invest substantially all of their assets through VGEM.

E. VLFGP

- (a) Amount beneficially owned: 7,991,519
- (b) Percent of Class: 5.8%
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or to direct the vote: 0
 - (ii) Shared power to vote or to direct the vote: 7,991,519
 - (iii) Sole power to dispose or to direct the disposition of: 0
 - (iv) Shared power to dispose or to direct the disposition of: 7,991,519

VLFGP serves as the investment manager of VLFM and has the authority to dispose of and vote the shares of Common Stock directly owned by VLFM. VLFGP does not directly own any shares of Common Stock.

Based on Rule 13d-3 of the Act, VLFGP may be deemed to beneficially own the shares of Common Stock directly held by VLFM.

F. VLFM

- (a) Amount beneficially owned: 7,991,519
- (b) Percent of Class: 5.8%
- (c) Number of shares as to which such person has:

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- (i) Sole power to vote or to direct the vote: 0
- (ii) Shared power to vote or to direct the vote: 7,991,519
- (iii) Sole power to dispose or to direct the disposition of: 0
- (iv) Shared power to dispose or to direct the disposition of: 7,991,519

VLFM has the authority to dispose of and vote the shares of Common Stock directly owned by it, which power may be exercised by its investment manager, VLFGP, and by VGI, an affiliate of VLFGP, which provides managerial services to VLFM. Viking Long Fund LP (a Delaware limited partnership) and Viking Long Fund III Ltd. (a Cayman Islands exempted company), through its investment in Viking Long Fund Intermediate L.P. (a Cayman Islands limited partnership), invest substantially all of their assets through VLFM.

G. O. Andreas Halvorsen, David C. Ott and Rose S. Shabet

- (a) Amount beneficially owned: 29,993,708
- (b) Percent of Class: 21.9%
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or to direct the vote: 0
 - (ii) Shared power to vote or to direct the vote: 29,993,708
 - (iii) Sole power to dispose or to direct the disposition of: 0
 - (iv) Shared power to dispose or to direct the disposition of: 29,993,708

Mr. Halvorsen, Mr. Ott and Ms. Shabet, as Executive Committee Members of Viking Global Partners LLC, general partner of VGI, VGP and VLFGP have shared authority to dispose of and vote the shares of Common Stock beneficially owned by VGI, VGP and VLFGP. None of Mr. Halvorsen, Mr. Ott and Ms. Shabet directly owns any shares of Common Stock.

Based on Rule 13d-3 of the Act, each may be deemed to beneficially own the shares of Common Stock directly held by VGEII, VGEM and VLFM.

Mr. Halvorsen, Mr. Ott and Ms. Shabet each beneficially own 29,993,708 shares of Common Stock consisting of (i) 440,046 shares of Common Stock directly and beneficially owned by VGEII, (ii) 21,562,143 shares of Common Stock directly and beneficially owned by VGEM and (iii) 7,991,519 shares of Common Stock directly and beneficially owned by VLFM.

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<u>Item 5.</u> <u>Ownership of Five Percent or Less of a Class.</u>

If this statement is being filed to report the fact that as of the date hereof the Reporting Persons have ceased to be the beneficial owner of more than five percent of the class of securities, check the following [].

<u>Item 6.</u> <u>Ownership of More than Five Percent on Behalf of Another Person.</u>

Not applicable.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security

Being Reported on by the Parent Holding Company.

Not applicable.

<u>Item 8.</u> <u>Identification and Classification of Members of the Group.</u>

Not applicable.

<u>Item 9.</u> Notice of Dissolution of Group.

Not applicable

<u>Item 10</u>. <u>Certification.</u> (if filing pursuant to Rule 13d-1(c))

By signing below each Reporting Person certifies that, to the best of its knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and not held in connection with or as a participant in any transaction having that purpose or effect.

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SIGNATURES

After reasonable inquiry and to the best of our knowledge and belief, the undersigned certify that the information set forth in this statement is true, complete and correct.

Dated: February 12, 2021

By: /s/ Scott M. Hendler

Name: Scott M. Hendler on behalf of O. Andreas Halvorsen (1)

By: /s/ Scott M. Hendler

Name: Scott M. Hendler on behalf of David C. Ott (2)

By: /s/ Scott M. Hendler

Name: Scott M. Hendler on behalf of Rose S. Shabet (3)

- (1) Scott M. Hendler is signing on behalf of O. Andreas Halvorsen, individually and as an Executive Committee Member of VIKING GLOBAL PARTNERS LLC, on behalf of VIKING GLOBAL INVESTORS LP, and as an Executive Committee Member of VIKING GLOBAL PERFORMANCE LLC, on behalf of itself and VIKING GLOBAL EQUITIES II LP and VIKING GLOBAL EQUITIES MASTER LTD., and as an Executive Committee Member of VIKING LONG FUND GP LLC, on behalf of itself and VIKING LONG FUND MASTER LTD, pursuant to an authorization and designation letter dated February 9, 2021, which was previously filed with the Commission as an exhibit to a Form 13G filed by Mr. Halvorsen on February 12, 2021 (SEC File No. 005-49737).
- (2) Scott M. Hendler is signing on behalf of David C. Ott, individually and as an Executive Committee Member of VIKING GLOBAL PARTNERS LLC, on behalf of VIKING GLOBAL INVESTORS LP, and as an Executive Committee Member of VIKING GLOBAL PERFORMANCE LLC, on behalf of itself and VIKING GLOBAL EQUITIES II LP and VIKING GLOBAL EQUITIES MASTER LTD., and as an Executive Committee Member of VIKING LONG FUND GP LLC, on behalf of itself and VIKING LONG FUND MASTER LTD, pursuant to an authorization and designation letter dated February 9, 2021, which was previously filed with the Commission as an exhibit to a Form 13G filed by Mr. Ott on February 12, 2021 (SEC File No. 005-49737).
- (3) Scott M. Hendler is signing on behalf of Rose S. Shabet, individually and as an Executive Committee Member of VIKING GLOBAL PARTNERS LLC, on behalf of VIKING GLOBAL INVESTORS LP, and as an Executive Committee Member of VIKING GLOBAL PERFORMANCE LLC, on behalf of itself and VIKING GLOBAL EQUITIES II LP and VIKING GLOBAL EQUITIES MASTER LTD., and as an Executive Committee Member of VIKING LONG FUND GP LLC, on behalf of itself and VIKING LONG FUND MASTER LTD, pursuant to an authorization and designation letter dated February 9, 2021, which was previously filed with the Commission as an exhibit to a Form 13G filed by Ms. Shabet on February 12, 2021 (SEC File No. 005-49737).