Form 603

Corporations Act 2001 Section 671B

Notice of initial substantial holder

To Company Name/Scheme	Atlas Arteria Limited
ACN/ARSN	141 075 201
1. Details of substantial holder (1)	
Name ACN/ARSN (if applicable)	State Street Corporation and subsidiaries named in Annexures to this form
The holder became a substantial holder	er on 26/10/2021

2. Details of voting power

The total number of votes attached to all the voting shares in the company or voting interests in the scheme that the substantial holder or an associate (2) had a relevant interest (3) in on the date the substantial holder became a substantial holder are as follows:

Class of securities (4)	Number of securities	Person's votes (5)	Voting power (6)
Ordinary	47,980,793	47,980,793	5.00%

3. Details of relevant interests

The nature of the relevant interest the substantial holder or an associate had in the following voting securities on the date the substantial holder became a substantial holder are as follows:

Holder of relevant interest	Nature of relevant interest (7)	Class and number of securities	
Annexure A			

4. Details of present registered holders

The persons registered as holders of the securities referred to in paragraph 3 above are as follows:

Holder of relevant interest	Registered holder of securities	Person entitled to be registered as holder (8)	Class and number of securities
Annexure A			

5. Consideration

The consideration paid for each relevant interest referred to in paragraph 3 above, and acquired in the four months prior to the day that the substantial holder became a substantial holder is as follows:

Holder of relevant interest	Date of acquisition	Consideration (9)		Class and number of securities
		Cash Non-Cash		
A B				
Annexure B				

Information Classification: Limited Access

6. Associates

The reasons the persons named in paragraph 3 above are associates of the substantial holder are as follows:

Name and ACN/ARSN (if applicable)	Nature of association		
Annexure A			

7. Addresses

The addresses of persons named in this form are as follows:

Name	Address
Annexure C	

Sia	nat	ure

print name Elizabeth Schaefer		Capacity: Authorised signatory		
sign here		date 28/	/10/2021	

DIRECTIONS

- (1) If there are a number of substantial holders with similar or related relevant interests (eg a corporation and its related corporations, or the manager and trustee of an equity trust), the names could be included in an annexure to the form. If the relevant interests of a group of persons are essentially similar, they may be referred to throughout the form as a specifically named group if the membership of each group, with the names and addresses of members is clearly set out in paragraph 7 of the form.
- (2) See the definition of "associate" in section 9 of the Corporations Act 2001.
- (3) See the definition of "relevant interest" in sections 608 and 671B(7) of the Corporations Act 2001.
- (4) The voting shares of a company constitute one class unless divided into separate classes.
- (5) The total number of votes attached to all the voting shares in the company or voting interests in the scheme (if any) that the person or an associate has a relevant interest in.
- (6) The person's votes divided by the total votes in the body corporate or scheme multiplied by 100.
- (7) Include details of:
 - (a) any relevant agreement or other circumstances by which the relevant interest was acquired. If subsection 671B(4) applies, a copy of any document setting out the terms of any relevant agreement, and a statement by the person giving full and accurate details of any contract, scheme or arrangement, must accompany this form, together with a written statement certifying this contract, scheme or arrangement; and
 - (b) any qualification of the power of a person to exercise, control the exercise of, or influence the exercise of, the voting powers or disposal of the securities to which the relevant interest relates (indicating clearly the particular securities to which the qualification applies).

See the definition of "relevant agreement" in section 9 of the Corporations Act 2001.

- (8) If the substantial holder is unable to determine the identity of the person (eg if the relevant interest arises because of an option) write "unknown".
- (9) Details of the consideration must include any and all benefits, money and other, that any person from whom a relevant interest was acquired has, or may, become entitled to receive in relation to that acquisition. Details must be included even if the benefit is conditional on the happening or not of a contingency. Details must be included of any benefit paid on behalf of the substantial holder or its associate in relation to the acquisitions, even if they are not paid directly to the person from whom the relevant interest was acquired.

Information Classification: Limited Access

Elizabeth Schaefer
Authorised Signatory

- Details of relevant interests
 Details of present registered holders
 Associates

Holder of relevant interest	Nature of Relevant Interest	Registered Holder of securities	Person Entitled to be registered as holder	Class and number o	f Securities	Nature of Association
(Section 3, 4 and 6)	(Section 3)	(Section 4)	(Section 4)	(Section 3 ar	nd 4)	(Section 6)
STATE STREET GLOBAL ADVISORS TRUST COMPANY	Power to control the exercise of a right to vote attached to	Northern Trust Company	NA NA	Ordinary	427,255	Subsidiary of State Street
	securities and/or the power to dispose of securities as investment manager or trustee					Corporation
	investment manager or dustee					
STATE STREET GLOBAL ADVISORS TRUST COMPANY	Power to control the exercise of a right to vote attached to	State Street Bank and Trust Co	NA NA	Ordinary	11,952,722	Subsidiary of State Street
	securities and/or the power to dispose of securities as investment manager or trustee					Corporation
	investment manager or distrect					
STATE STREET GLOBAL ADVISORS TRUST COMPANY	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as	JPMorgan AG	NA NA	Ordinary	182,615	Subsidiary of State Street Corporation
	investment manager or trustee					Corporation
	_					
STATE STREET GLOBAL ADVISORS TRUST COMPANY	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as	The Bank of New York Mellon	NA NA	Ordinary	627,286	Subsidiary of State Street Corporation
	investment manager or trustee					
SSGA FUNDS MANAGEMENT. INC.	Power to control the exercise of a right to vote attached to	State Street Bank and Trust Co	NA.	Ordinary	2 073 340	Subsidiary of State Street
33GA PONDS WARRAGEWENT, INC.	securities and/or the power to dispose of securities as	State Street Bank and Trust Co	NO.	Ordinary	2,073,340	Corporation
	investment manager or trustee					
STATE STREET GLOBAL ADVISORS EUROPE LIMITED	Power to control the exercise of a right to vote attached to	Bank of New York Mellon	NA NA	Ordinary	91 415	Subsidiary of State Street
	securities and/or the power to dispose of securities as			,		Corporation
	investment manager or trustee					
STATE STREET GLOBAL ADVISORS EUROPE LIMITED	Power to control the exercise of a right to vote attached to	Northern Trust Company	NA NA	Ordinary	282,525	Subsidiary of State Street
	securities and/or the power to dispose of securities as					Corporation
	investment manager or trustee					
STATE STREET GLOBAL ADVISORS EUROPE LIMITED	Power to control the exercise of a right to vote attached to	State Street Bank and Trust Co	NA NA	Ordinary	403,548	Subsidiary of State Street
	securities and/or the power to dispose of securities as					Corporation
	investment manager or trustee					
STATE STREET GLOBAL ADVISORS EUROPE LIMITED	Power to control the exercise of a right to vote attached to	JPMorgan AG	NA NA	Ordinary	25,172	Subsidiary of State Street
	securities and/or the power to dispose of securities as					Corporation
	investment manager or trustee					
STATE STREET GLOBAL ADVISORS (JAPAN) CO., LTD.	Power to control the exercise of a right to vote attached to	JPMorgan AG	NA NA	Ordinary	711,611	Subsidiary of State Street
	securities and/or the power to dispose of securities as					Corporation
	investment manager or trustee					
STATE STREET GLOBAL ADVISORS LIMITED	Power to control the exercise of a right to vote attached to	Northern Trust Company	NA NA	Ordinary	1,268,366	Subsidiary of State Street
	securities and/or the power to dispose of securities as investment manager or trustee					Corporation
	investment manager or distrect					
STATE STREET GLOBAL ADVISORS LIMITED	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as	State Street Bank and Trust Co	NA NA	Ordinary	1,545,263	Subsidiary of State Street Corporation
	investment manager or trustee					Corporation
	_					
STATE STREET GLOBAL ADVISORS LIMITED	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as	JPMorgan AG	NA NA	Ordinary	292,292	Subsidiary of State Street Corporation
	investment manager or trustee					Corporation
STATE STREET GLOBAL ADVISORS LIMITED	Power to control the exercise of a right to vote attached to	The Deals of New York Adults		Outros.	405.547	C. b. distance of Charles Charles
STATE STREET GLOBAL ADVISORS LIMITED	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities as	The Bank of New York Mellon	NA.	Ordinary	405,647	Subsidiary of State Street Corporation
	investment manager or trustee					
STATE STREET GLOBAL ADVISORS ASIA LIMITED	Power to control the exercise of a right to vote attached to	The Bank of New York Mallen	NA NA	Ordinary	12 524	Subsidiary of State Street
STATE STREET GLOBAL ADVISORS ASIA LIMITED	securities and/or the power to dispose of securities as	THE BAIK OF NEW TORK WEIGHT	INA	Ordinary	13,324	Corporation
	investment manager or trustee					
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	Power to control the exercise of a right to vote attached to	Northern Trust Company	NA NA	Ordinary	17 907 554	Subsidiary of State Street
	securities and/or the power to dispose of securities as			y	17,002,334	Corporation
	investment manager or trustee					
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	Power to control the exercise of a right to vote attached to	State Street Bank and Trust Co	NA NA	Ordinary	5,604,672	Subsidiary of State Street
	securities and/or the power to dispose of securities as					Corporation
	investment manager or trustee					
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	Power to control the exercise of a right to vote attached to	JPMorgan AG	NA NA	Ordinary	3,586,776	Subsidiary of State Street
	securities and/or the power to dispose of securities as					Corporation
	investment manager or trustee					
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	Power to control the exercise of a right to vote attached to	BNP Paribas	NA NA	Ordinary	64,489	Subsidiary of State Street
	securities and/or the power to dispose of securities as					Corporation
	investment manager or trustee					
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	Power to control the exercise of a right to vote attached to	Citibank NA	NA NA	Ordinary	593,471	Subsidiary of State Street
	securities and/or the power to dispose of securities as					Corporation
	investment manager or trustee					
STATE STREET BANK AND TRUST COMPANY	Relevant interest under section 608(1) being the right, as	Unknown	State Street Bank and Trust Company	Ordinary	20,949	Subsidiary of State Street
	lender, to recall shares under a securities loan					Corporation
STATE STREET BANK AND TRUST COMPANY	Relevant interest under section 608(1) being the right, as	Unknown	State Street Bank and Trust Company	Ordinary	5,301	Subsidiary of State Street
	lender, to recall shares under a securities loan					Corporation

___ 28 October 2021

Elizabeth Schaefer Authorised Signatory 5. Consideration

Holder of relevant interest	Date of Acquisition	Nature of transaction	Consideration	Class and number of Securities affe	
STATE STREET GLOBAL ADVISORS EUROPE LIMITED	2021/09/17	Purchase	6.97	Ordinary	7,322
STATE STREET GLOBAL ADVISORS EUROPE LIMITED	2021/09/30	Purchase	6.49	Ordinary	10,223
STATE STREET GLOBAL ADVISORS, INC.	2021/06/28	In Specie Contribution	n/a	Ordinary	18,566
STATE STREET GLOBAL ADVISORS, INC.	2021/06/29	Purchase	6.36	Ordinary	59,808
STATE STREET GLOBAL ADVISORS, INC.	2021/06/30	Purchase	6.37	Ordinary	222,993
STATE STREET GLOBAL ADVISORS, INC.	2021/06/30	Purchase	6.36	Ordinary	119,581
STATE STREET GLOBAL ADVISORS, INC.	2021/06/30	In Specie Contribution	n/a	Ordinary	235,927
STATE STREET GLOBAL ADVISORS, INC.	2021/07/01	In Specie Contribution	n/a	Ordinary	3,072
STATE STREET GLOBAL ADVISORS, INC.	2021/07/02	Purchase	6.27	Ordinary	4,763
STATE STREET GLOBAL ADVISORS, INC.	2021/07/02	Purchase	6.31	Ordinary	6,537
STATE STREET GLOBAL ADVISORS, INC.	2021/07/02	Purchase	6.27	Ordinary	361,543
STATE STREET GLOBAL ADVISORS, INC.	2021/07/02	In Specie Contribution	n/a	Ordinary	1,536
STATE STREET GLOBAL ADVISORS, INC.	2021/07/06	Purchase	6.46	Ordinary	24,496
STATE STREET GLOBAL ADVISORS, INC.	2021/07/07	Purchase	6.49	Ordinary	879
STATE STREET GLOBAL ADVISORS, INC.	2021/07/12	Purchase	6.40	Ordinary	1,711
STATE STREET GLOBAL ADVISORS, INC.	2021/07/13	Purchase	6.42	Ordinary	28,923
STATE STREET GLOBAL ADVISORS, INC.	2021/07/13	Purchase	6.41	Ordinary	6,111
STATE STREET GLOBAL ADVISORS, INC.	2021/07/14	Purchase	6.44	Ordinary	49,669
STATE STREET GLOBAL ADVISORS, INC.	2021/07/21	Purchase	6.23	Ordinary	1,432
STATE STREET GLOBAL ADVISORS, INC.	2021/07/26	Purchase	6.19	Ordinary	52,404
STATE STREET GLOBAL ADVISORS, INC.	2021/07/30	Purchase	6.26	Ordinary	141,977
STATE STREET GLOBAL ADVISORS, INC.	2021/08/02	Purchase	6.30	Ordinary	62,202
STATE STREET GLOBAL ADVISORS, INC.	2021/08/16	Purchase	6.23	Ordinary	91,457
STATE STREET GLOBAL ADVISORS, INC.	2021/08/17	Purchase	6.18	Ordinary	109,166
STATE STREET GLOBAL ADVISORS, INC.	2021/08/19	Purchase	6.26	Ordinary	5,527
STATE STREET GLOBAL ADVISORS, INC.	2021/08/20	In Specie Contribution	n/a	Ordinary	18,644
STATE STREET GLOBAL ADVISORS, INC.	2021/08/31	Purchase	6.86	Ordinary	39,487
STATE STREET GLOBAL ADVISORS, INC.	2021/09/02	Purchase	6.88	Ordinary	22,657
STATE STREET GLOBAL ADVISORS, INC.	2021/09/02	Purchase	6.83	Ordinary	14,419
STATE STREET GLOBAL ADVISORS, INC.	2021/09/02	Purchase	6.84	Ordinary	3,785
STATE STREET GLOBAL ADVISORS, INC.	2021/09/06	Purchase	6.88	Ordinary	6,448
STATE STREET GLOBAL ADVISORS, INC.	2021/09/07	Purchase	7.02	Ordinary	22,179
STATE STREET GLOBAL ADVISORS, INC.	2021/09/08	Purchase	7.05	Ordinary	23,634
STATE STREET GLOBAL ADVISORS, INC.	2021/09/08	In Specie Contribution	n/a	Ordinary	960
STATE STREET GLOBAL ADVISORS, INC.	2021/09/15	Purchase	6.61	Ordinary	35,217
STATE STREET GLOBAL ADVISORS, INC.	2021/09/15	In Specie Contribution	n/a	Ordinary	192
STATE STREET GLOBAL ADVISORS, INC.	2021/09/17	Purchase	7.01	Ordinary	52,114
STATE STREET GLOBAL ADVISORS, INC.	2021/09/17	Purchase	6.97	Ordinary	22,516
STATE STREET GLOBAL ADVISORS, INC.	2021/09/20	Purchase	6.64	Ordinary	13,481
STATE STREET GLOBAL ADVISORS, INC.	2021/09/22	Purchase	6.84	Ordinary	28,284
STATE STREET GLOBAL ADVISORS, INC.	2021/09/22	Purchase	6.82	Ordinary	2,427
STATE STREET GLOBAL ADVISORS, INC.	2021/09/27	Purchase	6.54	Ordinary	85,479
STATE STREET GLOBAL ADVISORS, INC.	2021/09/28	In Specie Contribution	n/a	Ordinary	65,765
STATE STREET GLOBAL ADVISORS, INC.	2021/09/29	In Specie Contribution	n/a	Ordinary	1,737
STATE STREET GLOBAL ADVISORS, INC.	2021/09/30	Purchase	6.48	Ordinary	142,994
STATE STREET GLOBAL ADVISORS, INC.	2021/09/30	Purchase	6.49	Ordinary	346,465
STATE STREET GLOBAL ADVISORS, INC.	2021/09/30	Purchase	6.49	Ordinary	2,637
STATE STREET GLOBAL ADVISORS, INC.	2021/09/30	In Specie Contribution	n/a	Ordinary	1,351
STATE STREET GLOBAL ADVISORS, INC.	2021/10/01	Purchase	6.36	Ordinary	1,821
STATE STREET GLOBAL ADVISORS, INC.	2021/10/01	In Specie Contribution	n/a	Ordinary	3,667
		In special solutions	1.70		5,507

STATE STREET GLOBAL ADVISORS, INC.	2021/10/13	Purchase	6.35	Ordinary	5,824
STATE STREET GLOBAL ADVISORS, INC.	2021/10/13	In Specie Contribution	n/a	Ordinary	1,351
STATE STREET GLOBAL ADVISORS, INC.	2021/10/21	Purchase	6.46	Ordinary	4,659
STATE STREET GLOBAL ADVISORS, INC.	2021/10/21	In Specie Contribution	n/a	Ordinary	960
STATE STREET GLOBAL ADVISORS, INC.	2021/10/26	Purchase	6.38	Ordinary	8,871
STATE STREET GLOBAL ADVISORS LIMITED	2021/07/01	Purchase	6.30	Ordinary	3,327
STATE STREET GLOBAL ADVISORS LIMITED	2021/07/07	Purchase	6.45	Ordinary	22,378
STATE STREET GLOBAL ADVISORS LIMITED	2021/07/19	Purchase	6.37	Ordinary	46,218
STATE STREET GLOBAL ADVISORS LIMITED	2021/07/22	Purchase	6.29	Ordinary	30,046
STATE STREET GLOBAL ADVISORS LIMITED	2021/07/26	Purchase	6.19	Ordinary	9,290
STATE STREET GLOBAL ADVISORS LIMITED	2021/07/27	Purchase	6.18	Ordinary	1,551
STATE STREET GLOBAL ADVISORS LIMITED	2021/07/30	Purchase	6.26	Ordinary	47,089
STATE STREET GLOBAL ADVISORS LIMITED	2021/07/30	Purchase	6.30	Ordinary	27,413
STATE STREET GLOBAL ADVISORS LIMITED	2021/08/10	In Specie Contribution	n/a	Ordinary	18,758
STATE STREET GLOBAL ADVISORS LIMITED	2021/08/24	Purchase	6.24	Ordinary	8,954
STATE STREET GLOBAL ADVISORS LIMITED	2021/09/07	Purchase	7.02	Ordinary	3,888
STATE STREET GLOBAL ADVISORS LIMITED	2021/09/07	Purchase	6.64	Ordinary	1,563
STATE STREET GLOBAL ADVISORS LIMITED	2021/09/27	Purchase	6.54	Ordinary	32,832
STATE STREET GLOBAL ADVISORS LIMITED	2021/09/27	Purchase	6.48	Ordinary	9,864
STATE STREET GLOBAL ADVISORS LIMITED STATE STREET GLOBAL ADVISORS LIMITED	2021/10/08	Purchase	6.36	Ordinary	34,578
STATE STREET GLOBAL ADVISORS LIMITED	2021/10/19	Purchase	6.45	Ordinary	36,584
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/10/20	Purchase	6.33	Ordinary	44,347
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/06/30	Purchase	6.37	Ordinary	13,435
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/06/30	Purchase	6.46	Ordinary	228,701
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/07/07	Purchase	6.49	Ordinary	8,211
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/07/09	Purchase	6.30	,	238,647
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/07/16	Purchase	6.44	Ordinary Ordinary	23,292
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/07/26	In Specie Contribution	n/a	Ordinary	871,013
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/07/28	In Specie Contribution	n/a	Ordinary	503,645
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/07/28	Purchase	6.26	Ordinary	98,043
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/07/30	In Specie Contribution	n/a	Ordinary	8,712
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/07/30	Purchase	6.27	Ordinary	223,536
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/08/04	Purchase	6.20	Ordinary	20,406
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/08/13	Purchase	6.17	Ordinary	24,590
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/08/15	Purchase	6.23	Ordinary	4,052
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/08/16	In Specie Contribution	n/a	Ordinary	12,720
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/08/16	In Specie Contribution	n/a	Ordinary	7,960
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/08/23	Purchase	7.05	Ordinary	27,369
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/09/08	Purchase	7.05	Ordinary	21,459
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/09/08	Purchase	6.67	Ordinary	84,743
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/09/17	Purchase	7.01	Ordinary	26,950
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/09/17	Purchase	6.68	Ordinary	11,550
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/09/17	Purchase	6.97	Ordinary	448,114
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/09/17	In Specie Contribution	n/a	Ordinary	8,040
	2021/09/17		n/a n/a		47,244
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/09/27	In Specie Contribution Purchase	n/a 6.35	Ordinary Ordinary	23,112
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	2021/10/01	In Specie Contribution	n/a	Ordinary	463,423
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED STATE STREET GLOBAL ADVISORS IRELAND LIMITED	2021/10/26	Purchase	n/a 6.30	Ordinary	7,473
STATE STREET GLODAL ADVISORS TRELAND LIMITED	2021/07/01	ruicilase	0.30	Orumary	7,473

	This is Annexure	C referred	to in Form	603 Notice of	initial substantial	holder
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___ 28 October 2021

Annexure C

Elizabeth Schaefer Authorised Signatory 7. Addresses

Name	Address
STATE STREET GLOBAL ADVISORS, AUSTRALIA, LIMITED	Level 15, 420 George Street, Sydney NSW 2000, Australia
STATE STREET GLOBAL ADVISORS ASIA LIMITED	68th Floor, Two International Finance Centre, 8 Finance Street, Central, Hong Kong, China
STATE STREET GLOBAL ADVISORS, INC.	1 Iron Street, Boston MA 02210, United States
STATE STREET GLOBAL ADVISORS EUROPE LIMITED	78 Sir John Rogerson's Quay, Dublin 2, Ireland
STATE STREET GLOBAL ADVISORS LIMITED	20 Churchill Place, London, England, E14 5HJ, United Kingdom
SSGA FUNDS MANAGEMENT, INC.	Channel Center, 1 Iron Street, Boston MA 02210, United States
STATE STREET GLOBAL ADVISORS TRUST COMPANY	1 Iron Street, Boston MA 02210, United States
STATE STREET GLOBAL ADVISORS (JAPAN) CO., LTD.	Toranomon Hills Mori Tower 25F, 1-23-1 Toranomon, Minato-ku, Tokyo, 105-6325, Japan
STATE STREET BANK AND TRUST COMPANY	1 Lincoln Street, Boston MA 02111-2900, United States
STATE STREET GLOBAL ADVISORS IRELAND LIMITED	78 Sir John Rogerson's Quay, Dublin 2, Ireland