

Form 603

Corporations Act 2001
Section 671B

Notice of initial substantial holder

To Company Name/Scheme METCASH LTD

ACN/ARSN 112 073 480

1. Details of substantial holder (1)

Name BlackRock Group (BlackRock Inc. and subsidiaries named in Annexures
ACN/ARSN (if applicable) to this form)

The holder became a substantial holder on 03 /08 /2023

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)
ord	48,472,659	48,472,659	5.02

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
see 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	
see Annexure B				

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
see Annexure A	

7. Addresses

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

Name	Address
see Annexure C	

Signature

print name Devon Eastlack

capacity Authorised Signatory*

sign here

date 07 / 08 /2023

*** At a meeting of the Board on 22 November 2013, the Directors resolved to approve the delegation of the preparation and lodgement of substantial shareholder notices on behalf of BlackRock Investment Management (Australia) Limited.**

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.

Devon Eastlack,
Authorised Signatory

07-Aug-23
Date

3. Details of Relevant Interests

4. Details of present registered holders

6. Associates

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock (Singapore) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BNYM-BONY LUXEMBOURG		ord 367,508	367,508	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BNYM-BONY EUROPE - LONDON		ord 419,188	419,188	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	CITI-CITIBANK, LONDON		ord 40,848	40,848	subsidiary of BlackRock Inc.
BlackRock Advisors (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	SSB-STATE STREET DUBLIN		ord 389,642	389,642	subsidiary of BlackRock Inc.
BlackRock Advisors, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ord 454,821	454,821	subsidiary of BlackRock Inc.
BlackRock Advisors, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ord 117,720	117,720	subsidiary of BlackRock Inc.
BlackRock Asset Management Canada Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	SSB-STATE STREET SACRAMENTO		ord 231,065	231,065	subsidiary of BlackRock Inc.
BlackRock Asset Management North Asia Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	CITI-CITIBANK, HONG KONG		ord 1,411,491	1,411,491	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ord 374	374	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, responsible entity or trustee.	BNP PRIME CUSTODY US		ord 9,258	9,258	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities		Person's votes	Nature of Association
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BOA-MERRILL LYNCH INTL PRIME BROKER - NEW YORK		ord	128,224	128,224	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	HSBC-HSBC, HONG KONG		ord	41,387	41,387	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	JP Morgan Prime Broker		ord	82,344	82,344	subsidiary of BlackRock Inc.
BlackRock Financial Management, Inc.	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	Northern Trust Luxembourg		ord	729,009	729,009	subsidiary of BlackRock Inc.
BlackRock Fund Advisors	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET BANK, BOSTON		ord	236,237	236,237	subsidiary of BlackRock Inc.
BlackRock Fund Advisors	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET MUTUAL FUNDS - BOSTON		ord	50,679	50,679	subsidiary of BlackRock Inc.
BlackRock Fund Advisors	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET SACRAMENTO		ord	12,014,491	12,014,491	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNYM-THE BANK OF NEW YORK		ord	313,150	313,150	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ord	5,785,979	5,785,979	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ord	44,147	44,147	subsidiary of BlackRock Inc.
BlackRock Institutional Trust Company, National Association	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET SACRAMENTO		ord	1,746	1,746	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BBH-BROWN BROTHERS HARRIMAN & CO - NEW YORK		ord	6,125	6,125	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	CITI-CITIBANK, HONG KONG		ord	3,208,395	3,208,395	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	CITI-Citigroup Australia - SYDNEY		ord	399,437	399,437	subsidiary of BlackRock Inc.

Holder of Relevant Interests Name and ACN / ARSN (if applicable)	Nature of Relevant Interest	Registered Holder of Securities	Person entitled to be registered as holder	Class and number of Securities	Person's votes	Nature of Association
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	JPM-JPM CHASE - SYDNEY		ord 10,325,800	10,325,800	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	NAB-NATIONAL AUSTRALIA BANK LIMITED - MELBOURNE		ord 6,583,830	6,583,830	subsidiary of BlackRock Inc.
BlackRock Investment Management (Australia) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	Northern Trust Singapore		ord 2,124,343	2,124,343	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNYM-BANK OF NY BRUS		ord 593,676	593,676	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNYM-BONY EUROPE - LONDON		ord 812,940	812,940	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	CITI-CITIBANK INTERNATIONAL PLC (LUXEMBOURG BRANCH		ord 82,330	82,330	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	CITI-CITIBANK, LONDON		ord 140,443	140,443	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	HSBC-HSBC - LONDON		ord 507,503	507,503	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	NT-NORTHERN TRUST UK		ord 236,219	236,219	subsidiary of BlackRock Inc.
BlackRock Investment Management (UK) Limited	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-STATE STREET LONDON		ord 272,852	272,852	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	BNYM-THE BANK OF NEW YORK		ord 139,641	139,641	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	JPM-JP MORGAN CHASE - NEW YORK		ord 117,560	117,560	subsidiary of BlackRock Inc.
BlackRock Investment Management, LLC	Power to control the exercise of a right to vote attached to securities and/or the power to dispose of securities held in its capacity as investment manager, reponsible entity or trustee.	SSB-SSB NEW YORK INSTITUTIONAL		ord 52,257	52,257	subsidiary of BlackRock Inc.

This is Annexure B of 6 pages referred to in form 603 Notice of initial substantial shareholder

07-Aug-23

Devon Eastlack,
Authorised Signatory

Date

5. Consideration

METCASH LTD (MTS)

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected
			Cash	Non-cash	CCY		
BlackRock Financial Management, Inc.	04-Apr-23	yes	3.90	on mkt buy	AUD	ord 103,261	103,261
BlackRock Institutional Trust Company, National Association	04-Apr-23	yes	3.90	on mkt buy	AUD	ord 1,988	1,988
BlackRock Advisors (UK) Limited	04-Apr-23	yes	3.90	on mkt buy	AUD	ord 6,275	6,275
BlackRock Investment Management (Australia) Limited	06-Apr-23	yes	3.89	on mkt buy	AUD	ord 20,454	20,454
BlackRock Investment Management (Australia) Limited	06-Apr-23	yes	3.89	on mkt buy	AUD	ord 4,870	4,870
BlackRock Investment Management (Australia) Limited	06-Apr-23	yes	3.89	on mkt buy	AUD	ord 27,981	27,981
BlackRock Investment Management (Australia) Limited	06-Apr-23	yes	3.89	on mkt buy	AUD	ord 10,605	10,605
BlackRock Investment Management (Australia) Limited	06-Apr-23	yes	3.89	on mkt buy	AUD	ord 7,824	7,824
BlackRock Investment Management (Australia) Limited	06-Apr-23	yes	3.89	on mkt buy	AUD	ord 8,729	8,729
APERIO GROUP LLC	06-Apr-23	no	n/a	in specie	AUD	ord 181,863	181,863
BlackRock Investment Management (Australia) Limited	11-Apr-23	yes	3.97	on mkt buy	AUD	ord 2,806	2,806
BlackRock Investment Management (Australia) Limited	11-Apr-23	yes	3.97	on mkt buy	AUD	ord 15,690	15,690
BlackRock Institutional Trust Company, National Association	11-Apr-23	yes	3.97	on mkt buy	AUD	ord 3,284	3,284
BlackRock Investment Management (UK) Limited	12-Apr-23	yes	4.02	on mkt buy	AUD	ord 22,481	22,481
BlackRock Investment Management (Australia) Limited	12-Apr-23	yes	4.02	on mkt buy	AUD	ord 9,423	9,423
BlackRock Investment Management (Australia) Limited	12-Apr-23	yes	4.02	on mkt buy	AUD	ord 54,835	54,835
BlackRock Investment Management (Australia) Limited	12-Apr-23	yes	4.02	on mkt buy	AUD	ord 115,796	115,796
BlackRock Institutional Trust Company, National Association	12-Apr-23	yes	4.02	on mkt buy	AUD	ord 14,098	14,098
BlackRock Institutional Trust Company, National Association	12-Apr-23	yes	4.02	on mkt buy	AUD	ord 3,652	3,652
BlackRock Institutional Trust Company, National Association	12-Apr-23	yes	4.02	on mkt buy	AUD	ord 3,971	3,971
BlackRock Advisors (UK) Limited	12-Apr-23	yes	4.00	on mkt buy	AUD	ord 1,256	1,256
BlackRock Financial Management, Inc.	12-Apr-23	yes	4.00	on mkt buy	AUD	ord 41,969	41,969
BlackRock Investment Management (Australia) Limited	13-Apr-23	yes	3.97	on mkt buy	AUD	ord 180,684	180,684
BlackRock Investment Management (Australia) Limited	14-Apr-23	yes	3.98	on mkt buy	AUD	ord 30,012	30,012
BlackRock Investment Management (Australia) Limited	14-Apr-23	yes	3.98	on mkt buy	AUD	ord 44,680	44,680
BlackRock Investment Management (Australia) Limited	14-Apr-23	yes	4.00	on mkt buy	AUD	ord 4,865	4,865
BlackRock Investment Management (Australia) Limited	17-Apr-23	yes	3.99	on mkt buy	AUD	ord 144,561	144,561
BlackRock Investment Management (Australia) Limited	18-Apr-23	yes	3.97	on mkt buy	AUD	ord 6,811	6,811
BlackRock Investment Management (UK) Limited	19-Apr-23	yes	3.96	on mkt buy	AUD	ord 95,620	95,620
BlackRock Asset Management North Asia Limited	19-Apr-23	yes	3.96	on mkt buy	AUD	ord 412,303	412,303
BlackRock Investment Management (Australia) Limited	19-Apr-23	yes	3.96	on mkt buy	AUD	ord 7,417	7,417
BlackRock Investment Management (Australia) Limited	19-Apr-23	yes	3.96	on mkt buy	AUD	ord 34,938	34,938
BlackRock Investment Management (Australia) Limited	19-Apr-23	yes	3.96	on mkt buy	AUD	ord 78,890	78,890

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected
			Cash	Non-cash	CCY		
BlackRock Institutional Trust Company, National Association	19-Apr-23	yes	3.96	on mkt buy	AUD	ord 8,385	8,385
BlackRock Investment Management (UK) Limited	19-Apr-23	yes	3.96	on mkt buy	AUD	ord 45,431	45,431
BlackRock Asset Management North Asia Limited	19-Apr-23	yes	3.96	on mkt buy	AUD	ord 195,891	195,891
BlackRock Investment Management (UK) Limited	20-Apr-23	yes	4.00	on mkt buy	AUD	ord 188,744	188,744
BlackRock Asset Management North Asia Limited	20-Apr-23	yes	4.00	on mkt buy	AUD	ord 813,830	813,830
BlackRock Investment Management (Australia) Limited	21-Apr-23	yes	3.98	on mkt buy	AUD	ord 2,394	2,394
BlackRock Investment Management (Australia) Limited	21-Apr-23	yes	3.98	on mkt buy	AUD	ord 12,717	12,717
BlackRock Investment Management (Australia) Limited	21-Apr-23	yes	3.98	on mkt buy	AUD	ord 33,263	33,263
BlackRock Investment Management (Australia) Limited	21-Apr-23	yes	3.96	on mkt buy	AUD	ord 5,838	5,838
BlackRock Investment Management (Australia) Limited	24-Apr-23	yes	4.01	on mkt buy	AUD	ord 156,482	156,482
BlackRock Investment Management (Australia) Limited	24-Apr-23	yes	4.00	on mkt buy	AUD	ord 10,703	10,703
BlackRock Investment Management (Australia) Limited	24-Apr-23	yes	4.00	on mkt buy	AUD	ord 4,865	4,865
BlackRock Fund Advisors	26-Apr-23	no	n/a	in specie	AUD	ord 16,055	16,055
BlackRock Investment Management (Australia) Limited	26-Apr-23	yes	4.00	on mkt buy	AUD	ord 29,403	29,403
BlackRock Advisors (UK) Limited	27-Apr-23	yes	3.94	on mkt buy	AUD	ord 4,984	4,984
BlackRock Investment Management (Australia) Limited	28-Apr-23	yes	3.91	on mkt buy	AUD	ord 14,346	14,346
BlackRock Investment Management (Australia) Limited	28-Apr-23	yes	3.91	on mkt buy	AUD	ord 35,422	35,422
BlackRock Investment Management (Australia) Limited	28-Apr-23	yes	3.90	on mkt buy	AUD	ord 4,865	4,865
BlackRock Investment Management (Australia) Limited	28-Apr-23	yes	3.90	on mkt buy	AUD	ord 9,730	9,730
BlackRock Investment Management (Australia) Limited	28-Apr-23	yes	3.90	on mkt buy	AUD	ord 26,671	26,671
BlackRock Fund Advisors	28-Apr-23	yes	3.90	on mkt buy	AUD	ord 145,849	145,849
BlackRock Fund Advisors	28-Apr-23	yes	3.90	on mkt buy	AUD	ord 14,731	14,731
BlackRock Investment Management (Australia) Limited	01-May-23	yes	3.91	on mkt buy	AUD	ord 70,404	70,404
BlackRock Investment Management (Australia) Limited	02-May-23	yes	3.90	on mkt buy	AUD	ord 7,784	7,784
BlackRock Investment Management (Australia) Limited	03-May-23	yes	3.87	on mkt buy	AUD	ord 220,819	220,819
BlackRock Institutional Trust Company, National Association	03-May-23	yes	3.87	on mkt buy	AUD	ord 30,729	30,729
BlackRock Institutional Trust Company, National Association	03-May-23	yes	3.87	on mkt buy	AUD	ord 8,736	8,736
BlackRock Institutional Trust Company, National Association	03-May-23	yes	3.87	on mkt buy	AUD	ord 10,961	10,961
BlackRock Investment Management (Australia) Limited	03-May-23	yes	3.87	on mkt buy	AUD	ord 62,779	62,779
BlackRock Investment Management (Australia) Limited	03-May-23	yes	3.88	on mkt buy	AUD	ord 138,563	138,563
BlackRock Investment Management (Australia) Limited	03-May-23	yes	3.88	on mkt buy	AUD	ord 20,808	20,808
BlackRock Investment Management (Australia) Limited	03-May-23	yes	3.88	on mkt buy	AUD	ord 6,681	6,681
BlackRock Investment Management (Australia) Limited	03-May-23	yes	3.88	on mkt buy	AUD	ord 6,740	6,740
BlackRock Advisors, LLC	04-May-23	yes	3.90	on mkt buy	AUD	ord 258,413	258,413
BlackRock Institutional Trust Company, National Association	04-May-23	yes	3.90	on mkt buy	AUD	ord 29,857	29,857
BlackRock Advisors, LLC	04-May-23	yes	3.90	on mkt buy	AUD	ord 2,062	2,062
BlackRock Advisors, LLC	04-May-23	yes	3.90	on mkt buy	AUD	ord 64,322	64,322
BlackRock Investment Management, LLC	04-May-23	yes	3.90	on mkt buy	AUD	ord 40,854	40,854
BlackRock (Singapore) Limited	04-May-23	yes	3.90	on mkt buy	AUD	ord 208,707	208,707
BlackRock Investment Management (Australia) Limited	04-May-23	yes	3.90	on mkt buy	AUD	ord 3,983	3,983
BlackRock Investment Management, LLC	04-May-23	yes	3.90	on mkt buy	AUD	ord 29,321	29,321
BlackRock Financial Management, Inc.	04-May-23	yes	3.90	on mkt buy	AUD	ord 25,986	25,986
BlackRock Investment Management (Australia) Limited	04-May-23	yes	3.90	on mkt buy	AUD	ord 168,305	168,305

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected
			Cash	Non-cash	CCY		
BlackRock Investment Management (Australia) Limited	04-May-23	yes	3.90	on mkt buy	AUD	ord 68,381	68,381
BlackRock Investment Management (UK) Limited	04-May-23	yes	3.91	on mkt buy	AUD	ord 28,111	28,111
BlackRock Investment Management, LLC	04-May-23	yes	3.91	on mkt buy	AUD	ord 3,969	3,969
BlackRock Fund Advisors	04-May-23	yes	3.91	on mkt buy	AUD	ord 231,933	231,933
BlackRock Investment Management (Australia) Limited	05-May-23	yes	3.94	on mkt buy	AUD	ord 79,233	79,233
BlackRock Institutional Trust Company, National Association	08-May-23	yes	3.95	on mkt buy	AUD	ord 17,853	17,853
BlackRock Institutional Trust Company, National Association	08-May-23	yes	3.95	on mkt buy	AUD	ord 2,827	2,827
BlackRock Institutional Trust Company, National Association	08-May-23	yes	3.95	on mkt buy	AUD	ord 3,352	3,352
BlackRock Investment Management (Australia) Limited	08-May-23	yes	3.95	on mkt buy	AUD	ord 2,265	2,265
BlackRock Investment Management (Australia) Limited	08-May-23	yes	3.95	on mkt buy	AUD	ord 107,517	107,517
BlackRock Investment Management (Australia) Limited	08-May-23	yes	3.95	on mkt buy	AUD	ord 5,910	5,910
BlackRock Investment Management (Australia) Limited	08-May-23	yes	3.95	on mkt buy	AUD	ord 42,874	42,874
BlackRock Investment Management (UK) Limited	08-May-23	yes	3.95	on mkt buy	AUD	ord 59,182	59,182
BlackRock Advisors, LLC	09-May-23	yes	3.97	on mkt buy	AUD	ord 157,809	157,809
BlackRock Institutional Trust Company, National Association	09-May-23	yes	3.97	on mkt buy	AUD	ord 18,249	18,249
BlackRock Advisors, LLC	09-May-23	yes	3.97	on mkt buy	AUD	ord 1,256	1,256
BlackRock Advisors, LLC	09-May-23	yes	3.97	on mkt buy	AUD	ord 39,311	39,311
BlackRock Investment Management, LLC	09-May-23	yes	3.97	on mkt buy	AUD	ord 25,034	25,034
BlackRock (Singapore) Limited	09-May-23	yes	3.97	on mkt buy	AUD	ord 128,417	128,417
BlackRock Investment Management (Australia) Limited	09-May-23	yes	3.97	on mkt buy	AUD	ord 2,419	2,419
BlackRock Investment Management, LLC	09-May-23	yes	3.97	on mkt buy	AUD	ord 17,986	17,986
BlackRock Institutional Trust Company, National Association	09-May-23	yes	3.97	on mkt buy	AUD	ord 530,572	530,572
BlackRock Fund Advisors	12-May-23	no	n/a	in specie	AUD	ord 7,720	7,720
BlackRock Advisors, LLC	12-May-23	yes	3.98	on mkt buy	AUD	ord 77,951	77,951
BlackRock Institutional Trust Company, National Association	12-May-23	yes	3.98	on mkt buy	AUD	ord 9,004	9,004
BlackRock Advisors, LLC	12-May-23	yes	3.98	on mkt buy	AUD	ord 628	628
BlackRock Advisors, LLC	12-May-23	yes	3.98	on mkt buy	AUD	ord 19,436	19,436
BlackRock Investment Management, LLC	12-May-23	yes	3.98	on mkt buy	AUD	ord 12,334	12,334
BlackRock (Singapore) Limited	12-May-23	yes	3.98	on mkt buy	AUD	ord 63,610	63,610
BlackRock Investment Management (Australia) Limited	12-May-23	yes	3.98	on mkt buy	AUD	ord 1,198	1,198
BlackRock Investment Management, LLC	12-May-23	yes	3.98	on mkt buy	AUD	ord 8,855	8,855
BlackRock Investment Management (Australia) Limited	12-May-23	yes	3.98	on mkt buy	AUD	ord 25,196	25,196
BlackRock Institutional Trust Company, National Association	12-May-23	yes	3.98	on mkt buy	AUD	ord 54,281	54,281
BlackRock Institutional Trust Company, National Association	12-May-23	yes	3.98	on mkt buy	AUD	ord 16,082	16,082
BlackRock Institutional Trust Company, National Association	12-May-23	yes	3.98	on mkt buy	AUD	ord 16,966	16,966
BlackRock Investment Management (Australia) Limited	12-May-23	yes	3.97	on mkt buy	AUD	ord 11,820	11,820
BlackRock Fund Advisors	16-May-23	no	n/a	in specie	AUD	ord 2,410	2,410
BlackRock Fund Advisors	16-May-23	no	n/a	in specie	AUD	ord 9,828	9,828
BlackRock Fund Advisors	17-May-23	no	n/a	in specie	AUD	ord 1,636	1,636
BlackRock Investment Management (Australia) Limited	17-May-23	yes	3.80	on mkt buy	AUD	ord 36,300	36,300
BlackRock Institutional Trust Company, National Association	17-May-23	yes	3.80	on mkt buy	AUD	ord 48,538	48,538
BlackRock Institutional Trust Company, National Association	17-May-23	yes	3.80	on mkt buy	AUD	ord 12,793	12,793
BlackRock Institutional Trust Company, National Association	17-May-23	yes	3.80	on mkt buy	AUD	ord 11,218	11,218
BlackRock Investment Management (Australia) Limited	17-May-23	yes	3.79	on mkt buy	AUD	ord 23,640	23,640
BlackRock Advisors (UK) Limited	17-May-23	yes	3.79	on mkt buy	AUD	ord 5,024	5,024
BlackRock Fund Advisors	17-May-23	yes	3.79	on mkt buy	AUD	ord 23,749	23,749
BlackRock Investment Management (Australia) Limited	18-May-23	yes	3.74	on mkt buy	AUD	ord 28,128	28,128

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected		Person's votes affected
			Cash	Non-cash	CCY			
BlackRock Investment Management (Australia) Limited	18-May-23	yes	3.74	on mkt buy	AUD	ord	105,895	105,895
BlackRock Investment Management (Australia) Limited	18-May-23	yes	3.75	on mkt buy	AUD	ord	33,490	33,490
BlackRock Investment Management (Australia) Limited	19-May-23	yes	3.77	on mkt buy	AUD	ord	8,245	8,245
BlackRock Investment Management (Australia) Limited	19-May-23	yes	3.77	on mkt buy	AUD	ord	34,409	34,409
BlackRock Institutional Trust Company, National Association	19-May-23	yes	3.77	on mkt buy	AUD	ord	29,329	29,329
BlackRock Institutional Trust Company, National Association	19-May-23	yes	3.77	on mkt buy	AUD	ord	6,153	6,153
BlackRock Institutional Trust Company, National Association	19-May-23	yes	3.77	on mkt buy	AUD	ord	5,639	5,639
BlackRock Investment Management (Australia) Limited	19-May-23	yes	3.78	on mkt buy	AUD	ord	19,214	19,214
BlackRock Investment Management (Australia) Limited	25-May-23	yes	3.64	on mkt buy	AUD	ord	47,280	47,280
BlackRock Advisors (UK) Limited	25-May-23	no	n/a	in specie	AUD	ord	46,815	46,815
BlackRock Investment Management (Australia) Limited	29-May-23	yes	3.65	on mkt buy	AUD	ord	5,910	5,910
BlackRock Investment Management (Australia) Limited	01-Jun-23	yes	3.58	on mkt buy	AUD	ord	174,536	174,536
BlackRock Investment Management (Australia) Limited	01-Jun-23	yes	3.58	on mkt buy	AUD	ord	7,880	7,880
BlackRock Investment Management (Australia) Limited	05-Jun-23	yes	3.58	on mkt buy	AUD	ord	33,751	33,751
BlackRock Institutional Trust Company, National Association	05-Jun-23	yes	3.57	on mkt buy	AUD	ord	5,967	5,967
BlackRock Institutional Trust Company, National Association	05-Jun-23	yes	3.57	on mkt buy	AUD	ord	12,462	12,462
BlackRock Institutional Trust Company, National Association	06-Jun-23	yes	3.51	on mkt buy	AUD	ord	18,259	18,259
BlackRock Institutional Trust Company, National Association	06-Jun-23	yes	3.51	on mkt buy	AUD	ord	1,848	1,848
BlackRock Institutional Trust Company, National Association	06-Jun-23	yes	3.51	on mkt buy	AUD	ord	2,568	2,568
BlackRock Financial Management, Inc.	06-Jun-23	yes	3.51	on mkt buy	AUD	ord	19,339	19,339
BlackRock Financial Management, Inc.	06-Jun-23	yes	3.51	on mkt buy	AUD	ord	2,131	2,131
BlackRock Fund Advisors	06-Jun-23	yes	3.51	on mkt buy	AUD	ord	7,530	7,530
BlackRock Institutional Trust Company, National Association	06-Jun-23	yes	3.51	on mkt buy	AUD	ord	5,788	5,788
BlackRock Financial Management, Inc.	07-Jun-23	yes	3.51	on mkt buy	AUD	ord	27,004	27,004
BlackRock Financial Management, Inc.	07-Jun-23	yes	3.51	on mkt buy	AUD	ord	3,067	3,067
BlackRock Investment Management (Australia) Limited	07-Jun-23	yes	3.51	on mkt buy	AUD	ord	6,195	6,195
BlackRock Investment Management (Australia) Limited	07-Jun-23	yes	3.49	on mkt buy	AUD	ord	11,820	11,820
BlackRock Investment Management (Australia) Limited	07-Jun-23	yes	3.49	on mkt buy	AUD	ord	13,449	13,449
BlackRock Institutional Trust Company, National Association	07-Jun-23	yes	3.49	on mkt buy	AUD	ord	1,326	1,326
BlackRock Institutional Trust Company, National Association	07-Jun-23	yes	3.49	on mkt buy	AUD	ord	57,313	57,313
BlackRock Investment Management (Australia) Limited	08-Jun-23	yes	3.58	on mkt buy	AUD	ord	100,227	100,227
BlackRock Fund Advisors	08-Jun-23	yes	3.58	on mkt buy	AUD	ord	13,259	13,259
BlackRock Institutional Trust Company, National Association	08-Jun-23	yes	3.58	on mkt buy	AUD	ord	9,724	9,724
BlackRock Investment Management (Australia) Limited	08-Jun-23	yes	3.58	on mkt buy	AUD	ord	78,970	78,970
BlackRock Investment Management (Australia) Limited	09-Jun-23	yes	3.55	on mkt buy	AUD	ord	2,523	2,523
BlackRock Institutional Trust Company, National Association	09-Jun-23	yes	3.55	on mkt buy	AUD	ord	15,924	15,924
BlackRock Institutional Trust Company, National Association	09-Jun-23	yes	3.55	on mkt buy	AUD	ord	618	618
BlackRock Institutional Trust Company, National Association	09-Jun-23	yes	3.55	on mkt buy	AUD	ord	902	902
BlackRock Financial Management, Inc.	09-Jun-23	yes	3.55	on mkt buy	AUD	ord	49,571	49,571
BlackRock Financial Management, Inc.	09-Jun-23	yes	3.55	on mkt buy	AUD	ord	5,687	5,687
BlackRock Fund Advisors	09-Jun-23	yes	3.54	on mkt buy	AUD	ord	42,981	42,981
BlackRock Financial Management, Inc.	13-Jun-23	yes	3.58	on mkt buy	AUD	ord	46,091	46,091
BlackRock Financial Management, Inc.	13-Jun-23	yes	3.58	on mkt buy	AUD	ord	64,317	64,317
BlackRock Financial Management, Inc.	13-Jun-23	yes	3.58	on mkt buy	AUD	ord	7,127	7,127

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected
			Cash	Non-cash	CCY		
BlackRock Fund Advisors	14-Jun-23	no	n/a	in specie	AUD	ord 2,474	2,474
BlackRock Fund Advisors	14-Jun-23	yes	3.58	on mkt buy	AUD	ord 29,890	29,890
BlackRock Institutional Trust Company, National Association	14-Jun-23	yes	3.58	on mkt buy	AUD	ord 19,060	19,060
BlackRock Investment Management (Australia) Limited	14-Jun-23	yes	3.58	on mkt buy	AUD	ord 13,466	13,466
BlackRock Investment Management (Australia) Limited	14-Jun-23	yes	3.58	on mkt buy	AUD	ord 12,308	12,308
BlackRock Investment Management (Australia) Limited	14-Jun-23	yes	3.58	on mkt buy	AUD	ord 17,296	17,296
BlackRock Institutional Trust Company, National Association	14-Jun-23	yes	3.59	on mkt buy	AUD	ord 13,645	13,645
BlackRock Institutional Trust Company, National Association	14-Jun-23	yes	3.59	on mkt buy	AUD	ord 819	819
BlackRock Institutional Trust Company, National Association	14-Jun-23	yes	3.59	on mkt buy	AUD	ord 1,660	1,660
BlackRock Financial Management, Inc.	14-Jun-23	yes	3.59	on mkt buy	AUD	ord 556,722	556,722
BlackRock Financial Management, Inc.	14-Jun-23	yes	3.59	on mkt buy	AUD	ord 71,963	71,963
BlackRock Investment Management (Australia) Limited	15-Jun-23	yes	3.62	on mkt buy	AUD	ord 135,706	135,706
BlackRock Financial Management, Inc.	15-Jun-23	yes	3.62	on mkt buy	AUD	ord 340,210	340,210
BlackRock Investment Management (UK) Limited	15-Jun-23	yes	3.60	on mkt buy	AUD	ord 12,596	12,596
BlackRock Institutional Trust Company, National Association	16-Jun-23	yes	3.63	on mkt buy	AUD	ord 5,088	5,088
BlackRock Financial Management, Inc.	16-Jun-23	yes	3.63	on mkt buy	AUD	ord 218,550	218,550
BlackRock Financial Management, Inc.	16-Jun-23	yes	3.63	on mkt buy	AUD	ord 66,982	66,982
BlackRock Investment Management (Australia) Limited	16-Jun-23	yes	3.63	on mkt buy	AUD	ord 9,402	9,402
BlackRock Investment Management (Australia) Limited	16-Jun-23	yes	3.63	on mkt buy	AUD	ord 19,675	19,675
BlackRock Investment Management (Australia) Limited	16-Jun-23	yes	3.63	on mkt buy	AUD	ord 39,178	39,178
BlackRock Investment Management (Australia) Limited	19-Jun-23	yes	3.66	on mkt buy	AUD	ord 17,929	17,929
BlackRock Investment Management (Australia) Limited	19-Jun-23	yes	3.67	on mkt buy	AUD	ord 8,865	8,865
BlackRock Advisors (UK) Limited	19-Jun-23	yes	3.67	on mkt buy	AUD	ord 26,670	26,670
BlackRock Investment Management (Australia) Limited	22-Jun-23	yes	3.61	on mkt buy	AUD	ord 128,905	128,905
BlackRock Investment Management (Australia) Limited	23-Jun-23	yes	3.59	on mkt buy	AUD	ord 4,175	4,175
BlackRock Investment Management (Australia) Limited	23-Jun-23	yes	3.59	on mkt buy	AUD	ord 8,937	8,937
BlackRock Investment Management (Australia) Limited	23-Jun-23	yes	3.59	on mkt buy	AUD	ord 2,629	2,629
BlackRock Investment Management (Australia) Limited	26-Jun-23	yes	3.75	on mkt buy	AUD	ord 56,760	56,760
BlackRock Financial Management, Inc.	26-Jun-23	yes	3.75	on mkt buy	AUD	ord 9,845	9,845
BlackRock Investment Management (Australia) Limited	27-Jun-23	yes	3.67	on mkt buy	AUD	ord 2,629	2,629
BlackRock Institutional Trust Company, National Association	28-Jun-23	yes	3.73	on mkt buy	AUD	ord 1,320	1,320
BlackRock Advisors (UK) Limited	29-Jun-23	yes	3.82	on mkt buy	AUD	ord 5,008	5,008
BlackRock Fund Advisors	30-Jun-23	no	n/a	in specie	AUD	ord 2,474	2,474
BlackRock Investment Management (UK) Limited	30-Jun-23	yes	3.79	on mkt buy	AUD	ord 7,787	7,787
BlackRock Investment Management (Australia) Limited	30-Jun-23	yes	3.76	on mkt buy	AUD	ord 1,970	1,970
BlackRock Advisors (UK) Limited	03-Jul-23	yes	3.81	on mkt buy	AUD	ord 7,518	7,518
BlackRock Institutional Trust Company, National Association	03-Jul-23	no	n/a	in specie	AUD	ord 16,350	16,350
BlackRock Fund Advisors	06-Jul-23	no	n/a	in specie	AUD	ord 2,474	2,474
BlackRock Advisors (UK) Limited	10-Jul-23	yes	3.70	on mkt buy	AUD	ord 1,253	1,253
BlackRock Institutional Trust Company, National Association	10-Jul-23	yes	3.70	on mkt buy	AUD	ord 12,163	12,163
BlackRock Asset Management North Asia Limited	13-Jul-23	yes	3.75	on mkt buy	AUD	ord 38,183	38,183
BlackRock Investment Management (Australia) Limited	13-Jul-23	yes	3.75	on mkt buy	AUD	ord 5,904	5,904
BlackRock Investment Management (Australia) Limited	14-Jul-23	yes	3.72	on mkt buy	AUD	ord 37,050	37,050
BlackRock Investment Management (Australia) Limited	14-Jul-23	yes	3.72	on mkt buy	AUD	ord 25,937	25,937

Holder of Relevant Interest	Date of Acquisition / Trans on a prescribed fin'l mkt		Consideration			Class and number of securities affected	Person's votes affected
			Cash	Non-cash	CCY		
BlackRock Investment Management (Australia) Limited	14-Jul-23	yes	3.72	on mkt buy	AUD	ord 58,960	58,960
BlackRock Financial Management, Inc.	17-Jul-23	yes	3.75	on mkt buy	AUD	ord 3,984	3,984
BlackRock Investment Management (Australia) Limited	17-Jul-23	yes	3.75	on mkt buy	AUD	ord 77,917	77,917
BlackRock Investment Management (Australia) Limited	19-Jul-23	yes	3.63	on mkt buy	AUD	ord 24,706	24,706
BlackRock Investment Management (Australia) Limited	19-Jul-23	yes	3.63	on mkt buy	AUD	ord 43,802	43,802
BlackRock Investment Management (Australia) Limited	19-Jul-23	yes	3.63	on mkt buy	AUD	ord 40,755	40,755
BlackRock Investment Management (Australia) Limited	20-Jul-23	yes	3.65	on mkt buy	AUD	ord 44,668	44,668
BlackRock Investment Management (Australia) Limited	20-Jul-23	yes	3.63	on mkt buy	AUD	ord 13,776	13,776
BlackRock Investment Management (Australia) Limited	21-Jul-23	yes	3.64	on mkt buy	AUD	ord 43,320	43,320
BlackRock Investment Management (Australia) Limited	24-Jul-23	yes	3.64	on mkt buy	AUD	ord 30,490	30,490
BlackRock Investment Management (Australia) Limited	25-Jul-23	yes	3.62	on mkt buy	AUD	ord 30,734	30,734
BlackRock Investment Management (Australia) Limited	26-Jul-23	yes	3.60	on mkt buy	AUD	ord 9,840	9,840
BlackRock Investment Management (Australia) Limited	26-Jul-23	yes	3.60	on mkt buy	AUD	ord 2,577	2,577
BlackRock Fund Advisors	26-Jul-23	no	n/a	in specie	AUD	ord 8,327	8,327
BlackRock Financial Management, Inc.	27-Jul-23	yes	3.67	on mkt buy	AUD	ord 49,021	49,021
BlackRock Investment Management (Australia) Limited	27-Jul-23	yes	3.67	on mkt buy	AUD	ord 187,011	187,011
BlackRock Advisors (UK) Limited	28-Jul-23	yes	3.66	on mkt buy	AUD	ord 4,992	4,992
BlackRock Investment Management (Australia) Limited	28-Jul-23	yes	3.66	on mkt buy	AUD	ord 4,318	4,318
BlackRock Investment Management (Australia) Limited	28-Jul-23	yes	3.66	on mkt buy	AUD	ord 18,679	18,679
BlackRock Investment Management (Australia) Limited	31-Jul-23	yes	3.61	on mkt buy	AUD	ord 69,089	69,089
BlackRock Investment Management (UK) Limited	01-Aug-23	yes	3.64	on mkt buy	AUD	ord 20,057	20,057
BlackRock Institutional Trust Company, National Association	02-Aug-23	yes	3.61	on mkt buy	AUD	ord 7,716	7,716
BlackRock Institutional Trust Company, National Association	02-Aug-23	yes	3.61	on mkt buy	AUD	ord 663	663
BlackRock Institutional Trust Company, National Association	02-Aug-23	yes	3.61	on mkt buy	AUD	ord 717	717
BlackRock Investment Management (Australia) Limited	02-Aug-23	yes	3.60	on mkt buy	AUD	ord 7,872	7,872
BlackRock Investment Management (Australia) Limited	02-Aug-23	yes	3.60	on mkt buy	AUD	ord 2,577	2,577
BlackRock Investment Management (Australia) Limited	02-Aug-23	yes	3.60	on mkt buy	AUD	ord 5,733	5,733
BlackRock Investment Management (Australia) Limited	02-Aug-23	yes	3.60	on mkt buy	AUD	ord 49,420	49,420
BlackRock Investment Management (Australia) Limited	02-Aug-23	yes	3.60	on mkt buy	AUD	ord 44,324	44,324
BlackRock Investment Management (Australia) Limited	03-Aug-23	yes	3.65	on mkt buy	AUD	ord 148,665	148,665
BlackRock Investment Management (Australia) Limited	03-Aug-23	yes	3.65	on mkt buy	AUD	ord 229,015	229,015
BlackRock Financial Management, Inc.	03-Aug-23	yes	3.65	on mkt buy	AUD	ord 146,911	146,911

This is Annexure C of 1 page referred to in form 603 Notice of initial substantial shareholder

07-Aug-23

Devon Eastlack,
Authorised Signatory

Date

7. Addresses

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

Name	Address
BlackRock Group	
BlackRock Inc.	50 Hudson Yards New York, NY 10001 USA
BlackRock (Singapore) Limited	20 Anson Road #18-01 079912 Singapore
BlackRock Advisors (UK) Limited	12 Throgmorton Avenue. London, EC2N 2DL, United Kingdom
BlackRock Advisors, LLC	251 Little Falls Dr Wilmington, DE 19808-1674
BlackRock Asset Management Canada Limited	161 Bay Street, Suite 2500 Toronto, Ontario M5J 2S1 Canada
BlackRock Asset Management North Asia Limited	15/F, 16/F, 17/F Citibank Tower & 17/F ICBC Tower, 3 Garden Road, Central, Hong Kong
BlackRock Financial Management, Inc.	251 Little Falls Dr Wilmington, DE 19808-1674
BlackRock Fund Advisors	400 Howard Street San Francisco, CA, 94105 United States
BlackRock Institutional Trust Company, National Association	1225 17th Street, Suite 300, Denver, CO 80202 (Colorado, USA)
BlackRock Investment Management (Australia) Limited	Level 37 Chifley Tower, 2 Chifley Square, Sydney NSW 2000 Australia
BlackRock Investment Management (UK) Limited	12 Throgmorton Avenue London EC2N 2DL United Kingdom
BlackRock Investment Management, LLC	251 Little Falls Dr Wilmington, DE 19808-1674
APERIO GROUP LLC	2710 Gateway Oaks Drive, Suite 150N, Sacramento, CA 95833-3505