

Form 604
Corporations Act 2001
Section 671B

Notice of change of interests of substantial holder

To Company Name/Scheme Ingenia Communities Group
ACN/ARSN 154 444 925 / 122 928 410 / 107 459 576

1. Details of substantial holder (1)

Name Vanguard Group (The Vanguard Group, Inc. and its controlled entities including those listed in Annexure A)
ACN/ARSN (if applicable) N/A

There was a change in the interests of the substantial holder on 20 Dec 2019

The previous notice was given to the company on 10 May 2017

The previous notice was dated 10 May 2017

2. Previous and present 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 when last required, and when now required, to give a substantial holding notice to the company or scheme, are as follows:

Class of securities (4)	Previous notice		Present notice	
	Person's votes	Voting power (5)	Person's votes	Voting power (5)
Total	14,628,509	8.223%	25,007,362	9.233%

3. Changes in relevant interests

Particulars of each change in, or change in the nature of, a relevant interest of the substantial holder or an associate in voting securities of the company or scheme, since the substantial holder was last required to give a substantial holding notice to the company or scheme are as follows:

Date of change	Person whose relevant interest changed	Nature of change (6)	Consideration given in relation to change (7)	Class and number of securities affected	Person's votes affected
See Annexure A					

4. Present relevant interests

Particulars of each relevant interest of the substantial holder in voting securities after the change are as follows:

Holder of relevant interest	Registered holder of securities	Person entitled to be registered as holder (8)	Nature of relevant interest (6)	Class and number of securities	Person's votes
Vanguard Group	BNY Mellon	Various funds and other accounts of Vanguard Group	Vanguard Group is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares. The other members of Vanguard Group have a relevant interest under section 608(3) of the Corporations Act.	Ordinary – 973,571	973,571
Vanguard Group	JP Morgan Chase Bank, N.A.	Various funds and other accounts of Vanguard Group	Vanguard Group is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares. The other members of Vanguard Group have a relevant interest under section 608(3) of the Corporations Act.	Ordinary – 4,370,590	4,370,590
Vanguard Group	Brown Brothers Harriman	Various funds and other accounts of Vanguard Group	Vanguard Group is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares. The other members of Vanguard Group have a relevant interest under section 608(3) of the Corporations Act.	Ordinary – 104,426	104,426
Vanguard Group	State Street Bank and Trust Company	Various funds and other accounts of Vanguard Group	Vanguard Group is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares. The other members of Vanguard Group have a relevant interest under section 608(3) of the Corporations Act.	Ordinary – 3,101,377	3,101,377
Vanguard Group	Various Others	Various funds and other accounts of Vanguard Group	Vanguard Group is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares. The other members of Vanguard Group have a relevant interest under section 608(3) of the Corporations Act.	Ordinary – 16,457,398	16,457,398

5. Changes in association

The persons who have become associates (2) of, ceased to be associates of, or have changed the nature of their association (9) with, the substantial holder in relation to voting interests in the company or scheme are as follows:

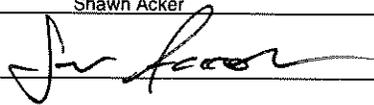
Name and ACN/ARSN (if applicable)	Nature of association
N/A	N/A

6. Addresses

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

Name	Address
Vanguard Group	P.O. Box 2600, V26 Valley Forge, PA 19482 USA

Signature

print name Shawn Acker capacity Compliance Manager
 sign here  date 24 Dec 2019

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 6 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 person's votes divided by the total votes in the body corporate or scheme multiplied by 100.
- (6) Include details of:
 - (a) any relevant agreement or other circumstances because of which the change in relevant interest occurred. 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.

- (7) 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.
- (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) Give details, if appropriate, of the present association and any change in that association since the last substantial holding notice.

To Company Ingenia Communities Group
ACN/ARSN 154 444 925 / 122 928 410 / 107 459 576

Substantial Holder Name Vanguard Group
ACN/ARSN N/A

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
10-May-17	The Vanguard Group, Inc.	BUY	2.76	Ordinary	7,875	7,875
11-May-17	The Vanguard Group, Inc.	BUY	2.77	Ordinary	20,408	20,408
15-May-17	The Vanguard Group, Inc.	BUY	2.70	Ordinary	9,450	9,450
17-May-17	The Vanguard Group, Inc.	BUY	2.71	Ordinary	62,390	62,390
18-May-17	The Vanguard Group, Inc.	BUY	2.70	Ordinary	6,300	6,300
1-Jun-17	The Vanguard Group, Inc.	BUY	2.67	Ordinary	9,519	9,519
2-Jun-17	The Vanguard Group, Inc.	BUY	2.69	Ordinary	70,821	70,821
5-Jun-17	The Vanguard Group, Inc.	BUY	2.70	Ordinary	3,150	3,150
6-Jun-17	The Vanguard Group, Inc.	BUY	2.70	Ordinary	6,300	6,300
12-Jun-17	The Vanguard Group, Inc.	BUY	2.68	Ordinary	9,450	9,450
16-Jun-17	The Vanguard Group, Inc.	BUY	2.73	Ordinary	2,834	2,834
29-Jun-17	The Vanguard Group, Inc.	BUY	2.60	Ordinary	17,325	17,325
12-Jul-17	The Vanguard Group, Inc.	BUY	2.64	Ordinary	6,300	6,300
26-Jul-17	The Vanguard Group, Inc.	BUY	2.60	Ordinary	9,450	9,450
2-Aug-17	The Vanguard Group, Inc.	BUY	2.55	Ordinary	3,150	3,150
3-Aug-17	The Vanguard Group, Inc.	BUY	2.54	Ordinary	9,450	9,450
4-Aug-17	The Vanguard Group, Inc.	BUY	2.55	Ordinary	4,725	4,725
14-Aug-17	The Vanguard Group, Inc.	BUY	2.53	Ordinary	7,875	7,875
21-Aug-17	The Vanguard Group, Inc.	BUY	2.60	Ordinary	9,450	9,450
29-Aug-17	The Vanguard Group, Inc.	BUY	2.53	Ordinary	9,450	9,450
31-Aug-17	The Vanguard Group, Inc.	BUY	2.55	Ordinary	3,646	3,646
5-Sep-17	The Vanguard Group, Inc.	BUY	2.55	Ordinary	5,469	5,469
12-Sep-17	The Vanguard Group, Inc.	BUY	2.55	Ordinary	8,624	8,624
13-Sep-17	The Vanguard Group, Inc.	BUY	2.54	Ordinary	44,078	44,078
14-Sep-17	The Vanguard Group, Inc.	BUY	2.55	Ordinary	16,723	16,723
14-Sep-17	The Vanguard Group, Inc.	BUY	2.55	Ordinary	3,155	3,155
15-Sep-17	The Vanguard Group, Inc.	BUY	2.53	Ordinary	620	620
15-Sep-17	The Vanguard Group, Inc.	BUY	2.53	Ordinary	150,515	150,515
25-Sep-17	The Vanguard Group, Inc.	BUY	2.54	Ordinary	10,496	10,496
27-Sep-17	The Vanguard Group, Inc.	BUY	2.56	Ordinary	2,624	2,624
2-Oct-17	The Vanguard Group, Inc.	BUY	2.57	Ordinary	3,936	3,936
12-Oct-17	The Vanguard Group, Inc.	BUY	2.68	Ordinary	10,496	10,496
20-Oct-17	The Vanguard Group, Inc.	BUY	2.67	Ordinary	10,496	10,496
27-Oct-17	The Vanguard Group, Inc.	BUY	2.66	Ordinary	36,703	36,703
31-Oct-17	The Vanguard Group, Inc.	BUY	2.66	Ordinary	2,624	2,624
31-Oct-17	The Vanguard Group, Inc.	BUY	2.66	Ordinary	7,872	7,872
2-Nov-17	The Vanguard Group, Inc.	BUY	2.66	Ordinary	25,453	25,453
2-Nov-17	The Vanguard Group, Inc.	BUY	2.66	Ordinary	20,000	20,000
2-Nov-17	The Vanguard Group, Inc.	BUY	2.67	Ordinary	5,248	5,248
3-Nov-17	The Vanguard Group, Inc.	BUY	2.67	Ordinary	7,872	7,872
13-Nov-17	The Vanguard Group, Inc.	BUY	2.69	Ordinary	10,496	10,496
15-Nov-17	The Vanguard Group, Inc.	BUY	2.68	Ordinary	5,248	5,248
17-Nov-17	The Vanguard Group, Inc.	BUY	2.70	Ordinary	13,120	13,120
24-Nov-17	The Vanguard Group, Inc.	BUY	2.72	Ordinary	10,496	10,496
8-Dec-17	The Vanguard Group, Inc.	BUY	2.85	Ordinary	4,281	4,281
8-Dec-17	The Vanguard Group, Inc.	BUY	2.85	Ordinary	12,843	12,843
14-Dec-17	The Vanguard Group, Inc.	BUY	2.83	Ordinary	31,428	31,428
15-Dec-17	The Vanguard Group, Inc.	BUY	2.85	Ordinary	10,476	10,476
18-Dec-17	The Vanguard Group, Inc.	BUY	2.80	Ordinary	318	318
19-Dec-17	The Vanguard Group, Inc.	BUY	2.80	Ordinary	532	532
20-Dec-17	The Vanguard Group, Inc.	SELL	2.72	Ordinary	(2,202)	(2,202)
8-Jan-18	The Vanguard Group, Inc.	BUY	2.77	Ordinary	9,737	9,737
18-Jan-18	The Vanguard Group, Inc.	BUY	2.79	Ordinary	12,519	12,519
19-Jan-18	The Vanguard Group, Inc.	BUY	2.79	Ordinary	5,564	5,564
23-Jan-18	The Vanguard Group, Inc.	BUY	2.78	Ordinary	8,346	8,346
24-Jan-18	The Vanguard Group, Inc.	BUY	2.78	Ordinary	2,782	2,782
26-Jan-18	The Vanguard Group, Inc.	BUY	2.78	Ordinary	11,128	11,128
2-Feb-18	The Vanguard Group, Inc.	BUY	2.72	Ordinary	11,128	11,128
5-Feb-18	The Vanguard Group, Inc.	BUY	2.68	Ordinary	5,564	5,564
20-Feb-18	The Vanguard Group, Inc.	BUY	2.65	Ordinary	4,173	4,173
5-Mar-18	The Vanguard Group, Inc.	SELL	2.73	Ordinary	(12,519)	(12,519)
15-Mar-18	The Vanguard Group, Inc.	BUY	2.70	Ordinary	5,564	5,564

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
16-Mar-18	The Vanguard Group, Inc.	BUY	2.70	Ordinary	1,170	1,170
16-Mar-18	The Vanguard Group, Inc.	SELL	2.70	Ordinary	(178)	(178)
16-Mar-18	The Vanguard Group, Inc.	SELL	2.70	Ordinary	(46,266)	(46,266)
16-Mar-18	The Vanguard Group, Inc.	SELL	2.69	Ordinary	(13,406)	(13,406)
16-Mar-18	The Vanguard Group, Inc.	BUY	2.70	Ordinary	46,266	46,266
23-Mar-18	The Vanguard Group, Inc.	BUY	2.83	Ordinary	4,116	4,116
3-Apr-18	The Vanguard Group, Inc.	BUY	2.77	Ordinary	29,585	29,585
5-Apr-18	The Vanguard Group, Inc.	BUY	2.73	Ordinary	65,218	65,218
10-Apr-18	The Vanguard Group, Inc.	BUY	2.76	Ordinary	9,604	9,604
11-Apr-18	The Vanguard Group, Inc.	BUY	2.75	Ordinary	142,172	142,172
12-Apr-18	The Vanguard Group, Inc.	BUY	2.75	Ordinary	4,116	4,116
16-Apr-18	The Vanguard Group, Inc.	BUY	2.75	Ordinary	9,604	9,604
18-Apr-18	The Vanguard Group, Inc.	BUY	2.75	Ordinary	497	497
2-May-18	The Vanguard Group, Inc.	BUY	2.64	Ordinary	9,604	9,604
2-May-18	The Vanguard Group, Inc.	BUY	2.64	Ordinary	5,488	5,488
5-Jun-18	The Vanguard Group, Inc.	BUY	2.64	Ordinary	3,720	3,720
14-Jun-18	The Vanguard Group, Inc.	BUY	2.70	Ordinary	2,132	2,132
15-Jun-18	The Vanguard Group, Inc.	BUY	2.69	Ordinary	28,336	28,336
18-Jun-18	The Vanguard Group, Inc.	BUY	2.65	Ordinary	20,265	20,265
18-Jun-18	The Vanguard Group, Inc.	BUY	2.65	Ordinary	4,053	4,053
4-Jul-18	The Vanguard Group, Inc.	BUY	3.08	Ordinary	20,000	20,000
5-Jul-18	The Vanguard Group, Inc.	BUY	3.07	Ordinary	50,000	50,000
5-Jul-18	The Vanguard Group, Inc.	BUY	3.06	Ordinary	65,000	65,000
5-Jul-18	The Vanguard Group, Inc.	BUY	3.07	Ordinary	7,111	7,111
9-Jul-18	The Vanguard Group, Inc.	BUY	3.14	Ordinary	3,405	3,405
18-Jul-18	The Vanguard Group, Inc.	SELL	3.14	Ordinary	(6,810)	(6,810)
9-Aug-18	The Vanguard Group, Inc.	SELL	3.12	Ordinary	(7,945)	(7,945)
11-Sep-18	The Vanguard Group, Inc.	BUY	3.00	Ordinary	9,080	9,080
21-Sep-18	The Vanguard Group, Inc.	BUY	3.05	Ordinary	51,427	51,427
24-Sep-18	The Vanguard Group, Inc.	BUY	3.01	Ordinary	19,631	19,631
12-Oct-18	The Vanguard Group, Inc.	SELL	2.95	Ordinary	(10,160)	(10,160)
18-Oct-18	The Vanguard Group, Inc.	BUY	3.02	Ordinary	40,539	40,539
19-Oct-18	The Vanguard Group, Inc.	BUY	3.03	Ordinary	5,000	5,000
19-Oct-18	The Vanguard Group, Inc.	BUY	3.05	Ordinary	230,551	230,551
23-Oct-18	The Vanguard Group, Inc.	SELL	2.98	Ordinary	(10,160)	(10,160)
23-Oct-18	The Vanguard Group, Inc.	SELL	2.98	Ordinary	(3,810)	(3,810)
29-Oct-18	The Vanguard Group, Inc.	SELL	2.89	Ordinary	(5,080)	(5,080)
29-Oct-18	The Vanguard Group, Inc.	SELL	2.89	Ordinary	(5,080)	(5,080)
31-Oct-18	The Vanguard Group, Inc.	SELL	2.88	Ordinary	(16,510)	(16,510)
31-Oct-18	The Vanguard Group, Inc.	SELL	2.88	Ordinary	(3,810)	(3,810)
14-Nov-18	The Vanguard Group, Inc.	BUY	3.02	Ordinary	45,939	45,939
12-Dec-18	The Vanguard Group, Inc.	BUY	3.02	Ordinary	3,810	3,810
18-Dec-18	The Vanguard Group, Inc.	BUY	2.96	Ordinary	42,894	42,894
18-Dec-18	The Vanguard Group, Inc.	BUY	2.96	Ordinary	19,606	19,606
19-Dec-18	The Vanguard Group, Inc.	SELL	2.96	Ordinary	(7,620)	(7,620)
21-Dec-18	The Vanguard Group, Inc.	BUY	2.95	Ordinary	153,798	153,798
21-Dec-18	The Vanguard Group, Inc.	SELL	2.95	Ordinary	(47,030)	(47,030)
21-Dec-18	The Vanguard Group, Inc.	BUY	2.95	Ordinary	70,298	70,298
2-Jan-19	The Vanguard Group, Inc.	BUY	3.00	Ordinary	9,524	9,524
2-Jan-19	The Vanguard Group, Inc.	BUY	3.00	Ordinary	28,572	28,572
2-Jan-19	The Vanguard Group, Inc.	BUY	3.00	Ordinary	19,048	19,048
3-Jan-19	The Vanguard Group, Inc.	BUY	2.93	Ordinary	7,143	7,143
4-Jan-19	The Vanguard Group, Inc.	BUY	2.91	Ordinary	2,381	2,381
10-Jan-19	The Vanguard Group, Inc.	BUY	2.91	Ordinary	2,636	2,636
11-Jan-19	The Vanguard Group, Inc.	BUY	2.94	Ordinary	5,272	5,272
15-Jan-19	The Vanguard Group, Inc.	SELL	2.97	Ordinary	(1,318)	(1,318)
16-Jan-19	The Vanguard Group, Inc.	SELL	2.96	Ordinary	(26,360)	(26,360)
29-Jan-19	The Vanguard Group, Inc.	SELL	3.02	Ordinary	(9,524)	(9,524)
1-Feb-19	The Vanguard Group, Inc.	SELL	3.07	Ordinary	(5,272)	(5,272)
1-Feb-19	The Vanguard Group, Inc.	SELL	3.07	Ordinary	(6,590)	(6,590)
1-Feb-19	The Vanguard Group, Inc.	SELL	3.07	Ordinary	(11,905)	(11,905)
1-Feb-19	The Vanguard Group, Inc.	SELL	3.07	Ordinary	(9,524)	(9,524)
7-Feb-19	The Vanguard Group, Inc.	SELL	3.09	Ordinary	(9,524)	(9,524)
8-Feb-19	The Vanguard Group, Inc.	SELL	3.15	Ordinary	(7,143)	(7,143)
13-Feb-19	The Vanguard Group, Inc.	SELL	3.13	Ordinary	(16,667)	(16,667)
15-Feb-19	The Vanguard Group, Inc.	SELL	3.13	Ordinary	(9,524)	(9,524)
22-Feb-19	The Vanguard Group, Inc.	SELL	3.12	Ordinary	(11,905)	(11,905)
25-Feb-19	The Vanguard Group, Inc.	BUY	3.10	Ordinary	1,318	1,318
25-Feb-19	The Vanguard Group, Inc.	SELL	3.10	Ordinary	(7,143)	(7,143)

Annexure A

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
25-Feb-19	The Vanguard Group, Inc.	SELL	3.10	Ordinary	(4,762)	(4,762)
25-Feb-19	The Vanguard Group, Inc.	SELL	3.10	Ordinary	(4,762)	(4,762)
1-Mar-19	The Vanguard Group, Inc.	BUY	3.08	Ordinary	3,954	3,954
5-Mar-19	The Vanguard Group, Inc.	BUY	3.01	Ordinary	6,590	6,590
15-Mar-19	The Vanguard Group, Inc.	BUY	3.05	Ordinary	13,099	13,099
27-Mar-19	The Vanguard Group, Inc.	BUY	3.02	Ordinary	5,732	5,732
27-Mar-19	The Vanguard Group, Inc.	SELL	3.02	Ordinary	(4,762)	(4,762)
5-Apr-19	The Vanguard Group, Inc.	BUY	3.02	Ordinary	1,433	1,433
5-Apr-19	The Vanguard Group, Inc.	BUY	3.02	Ordinary	4,299	4,299
16-Apr-19	The Vanguard Group, Inc.	BUY	3.09	Ordinary	15,186	15,186
26-Apr-19	The Vanguard Group, Inc.	BUY	3.10	Ordinary	2,531	2,531
26-Apr-19	The Vanguard Group, Inc.	BUY	3.10	Ordinary	7,593	7,593
29-Apr-19	The Vanguard Group, Inc.	BUY	3.10	Ordinary	24,871	24,871
29-Apr-19	The Vanguard Group, Inc.	BUY	3.08	Ordinary	80,614	80,614
29-Apr-19	The Vanguard Group, Inc.	BUY	3.08	Ordinary	2,204	2,204
7-May-19	The Vanguard Group, Inc.	BUY	3.05	Ordinary	109,739	109,739
8-May-19	The Vanguard Group, Inc.	BUY	3.02	Ordinary	4,408	4,408
21-May-19	The Vanguard Group, Inc.	BUY	3.10	Ordinary	46,932	46,932
22-May-19	The Vanguard Group, Inc.	BUY	3.13	Ordinary	4,408	4,408
29-May-19	The Vanguard Group, Inc.	BUY	3.11	Ordinary	9,384	9,384
4-Jun-19	The Vanguard Group, Inc.	BUY	3.22	Ordinary	9,384	9,384
18-Jun-19	The Vanguard Group, Inc.	BUY	3.26	Ordinary	12,919	12,919
19-Jun-19	The Vanguard Group, Inc.	BUY	3.26	Ordinary	54,353	54,353
20-Jun-19	The Vanguard Group, Inc.	BUY	3.20	Ordinary	98,688	98,688
21-Jun-19	The Vanguard Group, Inc.	BUY	3.23	Ordinary	10,704	10,704
21-Jun-19	The Vanguard Group, Inc.	BUY	3.23	Ordinary	281,745	281,745
24-Jun-19	The Vanguard Group, Inc.	BUY	3.23	Ordinary	4,293	4,293
24-Jun-19	The Vanguard Group, Inc.	BUY	3.22	Ordinary	41,277	41,277
25-Jun-19	The Vanguard Group, Inc.	BUY	3.17	Ordinary	7,329	7,329
24-Jul-19	The Vanguard Group, Inc.	BUY	3.27	Ordinary	23,434	23,434
25-Jul-19	The Vanguard Group, Inc.	BUY	3.30	Ordinary	71,049	71,049
26-Jul-19	The Vanguard Group, Inc.	BUY	3.30	Ordinary	66,889	66,889
2-Aug-19	The Vanguard Group, Inc.	BUY	3.49	Ordinary	55,724	55,724
5-Aug-19	The Vanguard Group, Inc.	SELL	3.50	Ordinary	(9,384)	(9,384)
5-Aug-19	The Vanguard Group, Inc.	SELL	3.50	Ordinary	(9,384)	(9,384)
6-Aug-19	The Vanguard Group, Inc.	BUY	3.46	Ordinary	36,208	36,208
15-Aug-19	The Vanguard Group, Inc.	BUY	3.53	Ordinary	79	79
19-Aug-19	The Vanguard Group, Inc.	SELL	3.46	Ordinary	(3,128)	(3,128)
20-Aug-19	The Vanguard Group, Inc.	SELL	3.57	Ordinary	(6,335)	(6,335)
4-Sep-19	The Vanguard Group, Inc.	SELL	3.95	Ordinary	(3,128)	(3,128)
5-Sep-19	The Vanguard Group, Inc.	BUY	4.03	Ordinary	10,352	10,352
5-Sep-19	The Vanguard Group, Inc.	BUY	4.03	Ordinary	12,940	12,940
6-Sep-19	The Vanguard Group, Inc.	BUY	3.92	Ordinary	5,176	5,176
17-Sep-19	The Vanguard Group, Inc.	SELL	3.93	Ordinary	(37,749)	(37,749)
17-Sep-19	The Vanguard Group, Inc.	SELL	3.95	Ordinary	(3,882)	(3,882)
18-Sep-19	The Vanguard Group, Inc.	SELL	3.83	Ordinary	(7,764)	(7,764)
18-Sep-19	The Vanguard Group, Inc.	SELL	3.83	Ordinary	(1,294)	(1,294)
18-Sep-19	The Vanguard Group, Inc.	SELL	3.83	Ordinary	(6,256)	(6,256)
20-Sep-19	The Vanguard Group, Inc.	SELL	3.81	Ordinary	(8,545)	(8,545)
20-Sep-19	The Vanguard Group, Inc.	BUY	3.81	Ordinary	314	314
20-Sep-19	The Vanguard Group, Inc.	SELL	3.81	Ordinary	(111,901)	(111,901)
26-Sep-19	The Vanguard Group, Inc.	BUY	3.87	Ordinary	47,027	47,027
2-Oct-19	The Vanguard Group, Inc.	BUY	4.02	Ordinary	3,807	3,807
17-Oct-19	The Vanguard Group, Inc.	BUY	3.93	Ordinary	25,872	25,872
17-Oct-19	The Vanguard Group, Inc.	BUY	3.93	Ordinary	436,149	436,149
17-Oct-19	The Vanguard Group, Inc.	BUY	3.93	Ordinary	174,415	174,415
17-Oct-19	The Vanguard Group, Inc.	BUY	3.93	Ordinary	8,716	8,716
17-Oct-19	The Vanguard Group, Inc.	BUY	3.93	Ordinary	143,258	143,258
17-Oct-19	The Vanguard Group, Inc.	BUY	3.93	Ordinary	77,422	77,422
21-Oct-19	The Vanguard Group, Inc.	BUY	4.23	Ordinary	3,855	3,855
25-Oct-19	The Vanguard Group, Inc.	SELL	4.36	Ordinary	(5,136)	(5,136)
29-Oct-19	The Vanguard Group, Inc.	SELL	4.32	Ordinary	(2,593)	(2,593)
30-Oct-19	The Vanguard Group, Inc.	BUY	3.93	Ordinary	292	292
30-Oct-19	The Vanguard Group, Inc.	BUY	3.93	Ordinary	1,295	1,295
30-Oct-19	The Vanguard Group, Inc.	BUY	3.93	Ordinary	90	90
30-Oct-19	The Vanguard Group, Inc.	BUY	3.93	Ordinary	58	58
30-Oct-19	The Vanguard Group, Inc.	BUY	3.93	Ordinary	15,300	15,300
1-Nov-19	The Vanguard Group, Inc.	BUY	4.44	Ordinary	205	205
7-Nov-19	The Vanguard Group, Inc.	BUY	4.39	Ordinary	5,140	5,140

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Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
14-Nov-19	The Vanguard Group, Inc.	BUY	4.39	Ordinary	2,570	2,570
26-Nov-19	The Vanguard Group, Inc.	BUY	4.57	Ordinary	104,426	104,426
4-Dec-19	The Vanguard Group, Inc.	BUY	4.53	Ordinary	81,839	81,839
5-Dec-19	The Vanguard Group, Inc.	SELL	4.52	Ordinary	(27,858)	(27,858)
20-Dec-19	The Vanguard Group, Inc.	BUY	4.72	Ordinary	284	284
4-May-17	Vanguard Investments Australia Ltd.	BUY	2.60	Ordinary	9,049	9,049
4-May-17	Vanguard Investments Australia Ltd.	BUY	2.60	Ordinary	7,409	7,409
4-May-17	Vanguard Investments Australia Ltd.	BUY	2.60	Ordinary	80,922	80,922
4-May-17	Vanguard Investments Australia Ltd.	BUY	2.60	Ordinary	70,249	70,249
4-May-17	Vanguard Investments Australia Ltd.	BUY	2.60	Ordinary	55,938	55,938
4-May-17	Vanguard Investments Australia Ltd.	BUY	2.60	Ordinary	2,000	2,000
4-May-17	Vanguard Investments Australia Ltd.	BUY	2.60	Ordinary	919,584	919,584
4-May-17	Vanguard Investments Australia Ltd.	BUY	2.60	Ordinary	139,670	139,670
10-May-17	Vanguard Investments Australia Ltd.	BUY	2.76	Ordinary	5,038	5,038
12-May-17	Vanguard Investments Australia Ltd.	BUY	2.74	Ordinary	7,557	7,557
17-May-17	Vanguard Investments Australia Ltd.	BUY	2.71	Ordinary	14,072	14,072
17-May-17	Vanguard Investments Australia Ltd.	BUY	2.70	Ordinary	5,368	5,368
17-May-17	Vanguard Investments Australia Ltd.	BUY	2.71	Ordinary	221,078	221,078
23-May-17	Vanguard Investments Australia Ltd.	BUY	2.70	Ordinary	5,368	5,368
25-May-17	Vanguard Investments Australia Ltd.	SELL	2.69	Ordinary	(7,314)	(7,314)
29-May-17	Vanguard Investments Australia Ltd.	BUY	2.71	Ordinary	10,736	10,736
1-Jun-17	Vanguard Investments Australia Ltd.	BUY	2.68	Ordinary	37,268	37,268
1-Jun-17	Vanguard Investments Australia Ltd.	BUY	2.68	Ordinary	26,927	26,927
2-Jun-17	Vanguard Investments Australia Ltd.	BUY	2.69	Ordinary	5,368	5,368
8-Jun-17	Vanguard Investments Australia Ltd.	SELL	2.69	Ordinary	(5,471)	(5,471)
9-Jun-17	Vanguard Investments Australia Ltd.	SELL	2.68	Ordinary	(6,812)	(6,812)
9-Jun-17	Vanguard Investments Australia Ltd.	BUY	2.68	Ordinary	8,186	8,186
15-Jun-17	Vanguard Investments Australia Ltd.	BUY	2.70	Ordinary	13,420	13,420
16-Jun-17	Vanguard Investments Australia Ltd.	BUY	2.72	Ordinary	3,770	3,770
16-Jun-17	Vanguard Investments Australia Ltd.	BUY	2.72	Ordinary	43,534	43,534
16-Jun-17	Vanguard Investments Australia Ltd.	BUY	2.72	Ordinary	24,446	24,446
16-Jun-17	Vanguard Investments Australia Ltd.	BUY	2.73	Ordinary	5,368	5,368
16-Jun-17	Vanguard Investments Australia Ltd.	BUY	2.72	Ordinary	36,120	36,120
21-Jun-17	Vanguard Investments Australia Ltd.	BUY	2.68	Ordinary	5,360	5,360
22-Jun-17	Vanguard Investments Australia Ltd.	SELL	2.69	Ordinary	(89,536)	(89,536)
27-Jun-17	Vanguard Investments Australia Ltd.	BUY	2.62	Ordinary	8,040	8,040
29-Jun-17	Vanguard Investments Australia Ltd.	BUY	2.60	Ordinary	16,446	16,446
30-Jun-17	Vanguard Investments Australia Ltd.	SELL	2.57	Ordinary	(93,209)	(93,209)
3-Jul-17	Vanguard Investments Australia Ltd.	SELL	2.59	Ordinary	(88,873)	(88,873)
5-Jul-17	Vanguard Investments Australia Ltd.	BUY	2.59	Ordinary	2,680	2,680
5-Jul-17	Vanguard Investments Australia Ltd.	BUY	2.59	Ordinary	5,360	5,360
6-Jul-17	Vanguard Investments Australia Ltd.	BUY	2.67	Ordinary	26,181	26,181
6-Jul-17	Vanguard Investments Australia Ltd.	BUY	2.67	Ordinary	53,600	53,600
6-Jul-17	Vanguard Investments Australia Ltd.	SELL	2.67	Ordinary	(26,181)	(26,181)
11-Jul-17	Vanguard Investments Australia Ltd.	SELL	2.61	Ordinary	(4,014)	(4,014)
11-Jul-17	Vanguard Investments Australia Ltd.	BUY	2.62	Ordinary	8,040	8,040
13-Jul-17	Vanguard Investments Australia Ltd.	SELL	2.60	Ordinary	(65,418)	(65,418)
13-Jul-17	Vanguard Investments Australia Ltd.	BUY	2.60	Ordinary	26,564	26,564
13-Jul-17	Vanguard Investments Australia Ltd.	BUY	2.60	Ordinary	2,680	2,680
13-Jul-17	Vanguard Investments Australia Ltd.	SELL	2.60	Ordinary	(53,621)	(53,621)
17-Jul-17	Vanguard Investments Australia Ltd.	SELL	2.59	Ordinary	(44,037)	(44,037)
17-Jul-17	Vanguard Investments Australia Ltd.	BUY	2.59	Ordinary	8,040	8,040
17-Jul-17	Vanguard Investments Australia Ltd.	SELL	2.59	Ordinary	(40,155)	(40,155)
20-Jul-17	Vanguard Investments Australia Ltd.	SELL	2.60	Ordinary	(48,516)	(48,516)
20-Jul-17	Vanguard Investments Australia Ltd.	BUY	2.59	Ordinary	32,851	32,851
20-Jul-17	Vanguard Investments Australia Ltd.	BUY	2.59	Ordinary	8,040	8,040
20-Jul-17	Vanguard Investments Australia Ltd.	SELL	2.60	Ordinary	(39,750)	(39,750)
24-Jul-17	Vanguard Investments Australia Ltd.	BUY	2.61	Ordinary	24,120	24,120
25-Jul-17	Vanguard Investments Australia Ltd.	SELL	2.59	Ordinary	(45,338)	(45,338)
25-Jul-17	Vanguard Investments Australia Ltd.	SELL	2.59	Ordinary	(16,080)	(16,080)
25-Jul-17	Vanguard Investments Australia Ltd.	SELL	2.59	Ordinary	(36,679)	(36,679)
27-Jul-17	Vanguard Investments Australia Ltd.	SELL	2.60	Ordinary	(35,605)	(35,605)
27-Jul-17	Vanguard Investments Australia Ltd.	BUY	2.60	Ordinary	39,155	39,155
3-Aug-17	Vanguard Investments Australia Ltd.	BUY	2.54	Ordinary	5,360	5,360
4-Aug-17	Vanguard Investments Australia Ltd.	SELL	2.55	Ordinary	(50,920)	(50,920)
8-Aug-17	Vanguard Investments Australia Ltd.	SELL	2.54	Ordinary	(23,320)	(23,320)
9-Aug-17	Vanguard Investments Australia Ltd.	BUY	2.53	Ordinary	2,680	2,680
9-Aug-17	Vanguard Investments Australia Ltd.	BUY	2.53	Ordinary	8,040	8,040
22-Aug-17	Vanguard Investments Australia Ltd.	BUY	2.60	Ordinary	6,651	6,651

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22-Aug-17	Vanguard Investments Australia Ltd.	BUY	2.60	Ordinary	7,321	7,321
25-Aug-17	Vanguard Investments Australia Ltd.	BUY	2.58	Ordinary	8,142	8,142
29-Aug-17	Vanguard Investments Australia Ltd.	BUY	2.55	Ordinary	6,056	6,056
30-Aug-17	Vanguard Investments Australia Ltd.	BUY	2.54	Ordinary	57,620	57,620
31-Aug-17	Vanguard Investments Australia Ltd.	BUY	2.55	Ordinary	4,794	4,794
1-Sep-17	Vanguard Investments Australia Ltd.	BUY	2.55	Ordinary	8,142	8,142
5-Sep-17	Vanguard Investments Australia Ltd.	BUY	2.54	Ordinary	1,578	1,578
5-Sep-17	Vanguard Investments Australia Ltd.	BUY	2.54	Ordinary	13,701	13,701
14-Sep-17	Vanguard Investments Australia Ltd.	BUY	2.54	Ordinary	2,714	2,714
15-Sep-17	Vanguard Investments Australia Ltd.	BUY	2.53	Ordinary	8,142	8,142
15-Sep-17	Vanguard Investments Australia Ltd.	BUY	2.54	Ordinary	57,023	57,023
15-Sep-17	Vanguard Investments Australia Ltd.	BUY	2.54	Ordinary	57,125	57,125
21-Sep-17	Vanguard Investments Australia Ltd.	BUY	2.55	Ordinary	13,615	13,615
27-Sep-17	Vanguard Investments Australia Ltd.	SELL	2.56	Ordinary	(5,884)	(5,884)
3-Oct-17	Vanguard Investments Australia Ltd.	SELL	2.56	Ordinary	(4,364)	(4,364)
3-Oct-17	Vanguard Investments Australia Ltd.	BUY	2.56	Ordinary	8,133	8,133
12-Oct-17	Vanguard Investments Australia Ltd.	BUY	2.68	Ordinary	5,422	5,422
27-Oct-17	Vanguard Investments Australia Ltd.	BUY	2.67	Ordinary	8,133	8,133
1-Nov-17	Vanguard Investments Australia Ltd.	BUY	2.67	Ordinary	5,238	5,238
1-Nov-17	Vanguard Investments Australia Ltd.	BUY	2.67	Ordinary	8,066	8,066
6-Nov-17	Vanguard Investments Australia Ltd.	BUY	2.67	Ordinary	8,133	8,133
7-Nov-17	Vanguard Investments Australia Ltd.	BUY	2.67	Ordinary	7,598	7,598
15-Nov-17	Vanguard Investments Australia Ltd.	BUY	2.68	Ordinary	5,422	5,422
16-Nov-17	Vanguard Investments Australia Ltd.	SELL	2.65	Ordinary	(3,884)	(3,884)
22-Nov-17	Vanguard Investments Australia Ltd.	BUY	2.70	Ordinary	10,844	10,844
29-Nov-17	Vanguard Investments Australia Ltd.	SELL	2.77	Ordinary	(10,844)	(10,844)
4-Dec-17	Vanguard Investments Australia Ltd.	SELL	2.83	Ordinary	(30,262)	(30,262)
5-Dec-17	Vanguard Investments Australia Ltd.	BUY	2.79	Ordinary	8,133	8,133
5-Dec-17	Vanguard Investments Australia Ltd.	BUY	2.79	Ordinary	5,422	5,422
5-Dec-17	Vanguard Investments Australia Ltd.	SELL	2.79	Ordinary	(17,982)	(17,982)
6-Dec-17	Vanguard Investments Australia Ltd.	BUY	2.81	Ordinary	20,028	20,028
11-Dec-17	Vanguard Investments Australia Ltd.	SELL	2.80	Ordinary	(3,700)	(3,700)
19-Dec-17	Vanguard Investments Australia Ltd.	BUY	2.76	Ordinary	27,090	27,090
19-Dec-17	Vanguard Investments Australia Ltd.	BUY	2.76	Ordinary	5,418	5,418
27-Dec-17	Vanguard Investments Australia Ltd.	BUY	2.80	Ordinary	27,090	27,090
28-Dec-17	Vanguard Investments Australia Ltd.	BUY	2.76	Ordinary	11,232	11,232
28-Dec-17	Vanguard Investments Australia Ltd.	SELL	2.75	Ordinary	(55,000)	(55,000)
4-Jan-18	Vanguard Investments Australia Ltd.	BUY	2.77	Ordinary	9,982	9,982
8-Jan-18	Vanguard Investments Australia Ltd.	BUY	2.77	Ordinary	5,488	5,488
16-Jan-18	Vanguard Investments Australia Ltd.	BUY	2.76	Ordinary	5,488	5,488
25-Jan-18	Vanguard Investments Australia Ltd.	BUY	2.78	Ordinary	5,488	5,488
2-Feb-18	Vanguard Investments Australia Ltd.	BUY	2.72	Ordinary	5,488	5,488
13-Feb-18	Vanguard Investments Australia Ltd.	SELL	2.62	Ordinary	(16,464)	(16,464)
15-Feb-18	Vanguard Investments Australia Ltd.	SELL	2.62	Ordinary	(356)	(356)
26-Feb-18	Vanguard Investments Australia Ltd.	BUY	2.76	Ordinary	5,488	5,488
26-Feb-18	Vanguard Investments Australia Ltd.	BUY	2.76	Ordinary	30,445	30,445
27-Feb-18	Vanguard Investments Australia Ltd.	BUY	2.79	Ordinary	26,052	26,052
21-Mar-18	Vanguard Investments Australia Ltd.	SELL	2.83	Ordinary	(38,892)	(38,892)
29-Mar-18	Vanguard Investments Australia Ltd.	SELL	2.79	Ordinary	(32,026)	(32,026)
17-Apr-18	Vanguard Investments Australia Ltd.	SELL	2.72	Ordinary	(37,045)	(37,045)
19-Apr-18	Vanguard Investments Australia Ltd.	SELL	2.73	Ordinary	(1,073)	(1,073)
11-May-18	Vanguard Investments Australia Ltd.	SELL	2.67	Ordinary	(2,915)	(2,915)
11-May-18	Vanguard Investments Australia Ltd.	BUY	2.68	Ordinary	69,854	69,854
11-May-18	Vanguard Investments Australia Ltd.	SELL	2.68	Ordinary	(69,854)	(69,854)
22-May-18	Vanguard Investments Australia Ltd.	BUY	2.67	Ordinary	2,736	2,736
28-May-18	Vanguard Investments Australia Ltd.	SELL	2.67	Ordinary	(758)	(758)
29-May-18	Vanguard Investments Australia Ltd.	BUY	2.69	Ordinary	2,736	2,736
4-Jun-18	Vanguard Investments Australia Ltd.	BUY	2.65	Ordinary	12,684	12,684
4-Jun-18	Vanguard Investments Australia Ltd.	BUY	2.65	Ordinary	83,264	83,264
6-Jun-18	Vanguard Investments Australia Ltd.	BUY	2.68	Ordinary	10,944	10,944
15-Jun-18	Vanguard Investments Australia Ltd.	SELL	2.69	Ordinary	(34,580)	(34,580)
15-Jun-18	Vanguard Investments Australia Ltd.	BUY	2.69	Ordinary	88,185	88,185
28-Jun-18	Vanguard Investments Australia Ltd.	BUY	3.05	Ordinary	86,693	86,693
29-Jun-18	Vanguard Investments Australia Ltd.	BUY	3.08	Ordinary	5,578	5,578
3-Jul-18	Vanguard Investments Australia Ltd.	BUY	3.09	Ordinary	7,623	7,623
5-Jul-18	Vanguard Investments Australia Ltd.	SELL	3.08	Ordinary	(14,115)	(14,115)
5-Jul-18	Vanguard Investments Australia Ltd.	BUY	3.08	Ordinary	2,789	2,789
6-Jul-18	Vanguard Investments Australia Ltd.	BUY	3.09	Ordinary	12,050	12,050
6-Jul-18	Vanguard Investments Australia Ltd.	BUY	3.09	Ordinary	12,954	12,954

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
6-Jul-18	Vanguard Investments Australia Ltd.	BUY	3.10	Ordinary	5,578	5,578
16-Jul-18	Vanguard Investments Australia Ltd.	BUY	3.16	Ordinary	5,478	5,478
16-Jul-18	Vanguard Investments Australia Ltd.	BUY	3.16	Ordinary	8,358	8,358
17-Jul-18	Vanguard Investments Australia Ltd.	BUY	3.14	Ordinary	3,275	3,275
18-Jul-18	Vanguard Investments Australia Ltd.	BUY	3.14	Ordinary	5,478	5,478
19-Jul-18	Vanguard Investments Australia Ltd.	BUY	3.13	Ordinary	27,886	27,886
24-Jul-18	Vanguard Investments Australia Ltd.	SELL	3.12	Ordinary	(5,970)	(5,970)
26-Jul-18	Vanguard Investments Australia Ltd.	BUY	3.10	Ordinary	5,580	5,580
3-Aug-18	Vanguard Investments Australia Ltd.	BUY	3.10	Ordinary	11,160	11,160
3-Aug-18	Vanguard Investments Australia Ltd.	BUY	3.10	Ordinary	8,161	8,161
9-Aug-18	Vanguard Investments Australia Ltd.	BUY	3.12	Ordinary	5,580	5,580
13-Aug-18	Vanguard Investments Australia Ltd.	BUY	3.10	Ordinary	6,605	6,605
13-Aug-18	Vanguard Investments Australia Ltd.	BUY	3.10	Ordinary	31,465	31,465
14-Aug-18	Vanguard Investments Australia Ltd.	BUY	3.11	Ordinary	24,029	24,029
15-Aug-18	Vanguard Investments Australia Ltd.	SELL	3.11	Ordinary	(2,592)	(2,592)
15-Aug-18	Vanguard Investments Australia Ltd.	BUY	3.10	Ordinary	5,580	5,580
20-Aug-18	Vanguard Investments Australia Ltd.	SELL	3.11	Ordinary	(2,971)	(2,971)
21-Aug-18	Vanguard Investments Australia Ltd.	SELL	3.01	Ordinary	(6,569)	(6,569)
23-Aug-18	Vanguard Investments Australia Ltd.	BUY	3.11	Ordinary	5,580	5,580
29-Aug-18	Vanguard Investments Australia Ltd.	BUY	3.01	Ordinary	1,277	1,277
29-Aug-18	Vanguard Investments Australia Ltd.	BUY	3.01	Ordinary	6,579	6,579
30-Aug-18	Vanguard Investments Australia Ltd.	BUY	3.01	Ordinary	6,497	6,497
4-Sep-18	Vanguard Investments Australia Ltd.	BUY	3.00	Ordinary	5,580	5,580
6-Sep-18	Vanguard Investments Australia Ltd.	BUY	3.02	Ordinary	41,574	41,574
10-Sep-18	Vanguard Investments Australia Ltd.	BUY	3.00	Ordinary	5,574	5,574
10-Sep-18	Vanguard Investments Australia Ltd.	BUY	3.00	Ordinary	11,148	11,148
19-Sep-18	Vanguard Investments Australia Ltd.	BUY	3.01	Ordinary	5,574	5,574
21-Sep-18	Vanguard Investments Australia Ltd.	BUY	3.05	Ordinary	49,552	49,552
21-Sep-18	Vanguard Investments Australia Ltd.	BUY	3.05	Ordinary	38,760	38,760
26-Sep-18	Vanguard Investments Australia Ltd.	BUY	2.98	Ordinary	5,582	5,582
3-Oct-18	Vanguard Investments Australia Ltd.	BUY	2.98	Ordinary	11,128	11,128
4-Oct-18	Vanguard Investments Australia Ltd.	SELL	2.97	Ordinary	(577)	(577)
4-Oct-18	Vanguard Investments Australia Ltd.	BUY	2.97	Ordinary	5,564	5,564
4-Oct-18	Vanguard Investments Australia Ltd.	SELL	2.97	Ordinary	(4,938)	(4,938)
10-Oct-18	Vanguard Investments Australia Ltd.	SELL	2.98	Ordinary	(4,914)	(4,914)
15-Oct-18	Vanguard Investments Australia Ltd.	BUY	2.95	Ordinary	8,346	8,346
17-Oct-18	Vanguard Investments Australia Ltd.	BUY	3.00	Ordinary	18,601	18,601
25-Oct-18	Vanguard Investments Australia Ltd.	BUY	2.96	Ordinary	5,564	5,564
31-Oct-18	Vanguard Investments Australia Ltd.	SELL	2.88	Ordinary	(13,910)	(13,910)
2-Nov-18	Vanguard Investments Australia Ltd.	BUY	2.86	Ordinary	5,564	5,564
2-Nov-18	Vanguard Investments Australia Ltd.	BUY	2.86	Ordinary	8,346	8,346
9-Nov-18	Vanguard Investments Australia Ltd.	BUY	2.95	Ordinary	5,536	5,536
14-Nov-18	Vanguard Investments Australia Ltd.	SELL	3.02	Ordinary	(4,211)	(4,211)
16-Nov-18	Vanguard Investments Australia Ltd.	BUY	2.96	Ordinary	11,326	11,326
19-Nov-18	Vanguard Investments Australia Ltd.	BUY	2.96	Ordinary	12,401	12,401
21-Nov-18	Vanguard Investments Australia Ltd.	BUY	2.99	Ordinary	12,313	12,313
23-Nov-18	Vanguard Investments Australia Ltd.	SELL	3.09	Ordinary	(13,164)	(13,164)
23-Nov-18	Vanguard Investments Australia Ltd.	BUY	3.08	Ordinary	42,223	42,223
27-Nov-18	Vanguard Investments Australia Ltd.	SELL	3.06	Ordinary	(9,446)	(9,446)
29-Nov-18	Vanguard Investments Australia Ltd.	SELL	3.07	Ordinary	(5,235)	(5,235)
30-Nov-18	Vanguard Investments Australia Ltd.	BUY	3.06	Ordinary	5,528	5,528
3-Dec-18	Vanguard Investments Australia Ltd.	BUY	3.05	Ordinary	1,721	1,721
4-Dec-18	Vanguard Investments Australia Ltd.	BUY	3.07	Ordinary	38,353	38,353
6-Dec-18	Vanguard Investments Australia Ltd.	BUY	3.05	Ordinary	10,245	10,245
6-Dec-18	Vanguard Investments Australia Ltd.	BUY	3.06	Ordinary	5,652	5,652
18-Dec-18	Vanguard Investments Australia Ltd.	BUY	2.96	Ordinary	8,484	8,484
20-Dec-18	Vanguard Investments Australia Ltd.	BUY	2.99	Ordinary	5,656	5,656
20-Dec-18	Vanguard Investments Australia Ltd.	BUY	2.99	Ordinary	39,853	39,853
21-Dec-18	Vanguard Investments Australia Ltd.	BUY	2.96	Ordinary	96,789	96,789
31-Dec-18	Vanguard Investments Australia Ltd.	SELL	3.00	Ordinary	(2,400)	(2,400)
9-Jan-19	Vanguard Investments Australia Ltd.	BUY	2.93	Ordinary	5,808	5,808
22-Jan-19	Vanguard Investments Australia Ltd.	BUY	2.94	Ordinary	8,712	8,712
23-Jan-19	Vanguard Investments Australia Ltd.	BUY	2.93	Ordinary	2,904	2,904
4-Feb-19	Vanguard Investments Australia Ltd.	BUY	3.04	Ordinary	5,808	5,808
14-Feb-19	Vanguard Investments Australia Ltd.	BUY	3.11	Ordinary	8,709	8,709
20-Feb-19	Vanguard Investments Australia Ltd.	SELL	3.20	Ordinary	(9,484)	(9,484)
26-Feb-19	Vanguard Investments Australia Ltd.	BUY	3.10	Ordinary	2,903	2,903
27-Feb-19	Vanguard Investments Australia Ltd.	BUY	3.10	Ordinary	4,075	4,075
27-Feb-19	Vanguard Investments Australia Ltd.	BUY	3.10	Ordinary	12,358	12,358

Annexure A

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
28-Feb-19	Vanguard Investments Australia Ltd.	BUY	3.04	Ordinary	5,680	5,680
28-Feb-19	Vanguard Investments Australia Ltd.	BUY	3.02	Ordinary	8,709	8,709
28-Feb-19	Vanguard Investments Australia Ltd.	BUY	3.04	Ordinary	17,228	17,228
15-Mar-19	Vanguard Investments Australia Ltd.	BUY	3.05	Ordinary	31,429	31,429
15-Mar-19	Vanguard Investments Australia Ltd.	BUY	3.05	Ordinary	2,903	2,903
15-Mar-19	Vanguard Investments Australia Ltd.	BUY	3.05	Ordinary	55,409	55,409
15-Mar-19	Vanguard Investments Australia Ltd.	BUY	3.05	Ordinary	36,641	36,641
19-Mar-19	Vanguard Investments Australia Ltd.	BUY	2.99	Ordinary	8,796	8,796
29-Mar-19	Vanguard Investments Australia Ltd.	SELL	3.02	Ordinary	(43,227)	(43,227)
1-Apr-19	Vanguard Investments Australia Ltd.	BUY	3.03	Ordinary	23,673	23,673
4-Apr-19	Vanguard Investments Australia Ltd.	BUY	3.06	Ordinary	2,920	2,920
5-Apr-19	Vanguard Investments Australia Ltd.	BUY	3.02	Ordinary	8,760	8,760
8-Apr-19	Vanguard Investments Australia Ltd.	BUY	3.02	Ordinary	2,920	2,920
9-Apr-19	Vanguard Investments Australia Ltd.	BUY	3.04	Ordinary	64,544	64,544
10-Apr-19	Vanguard Investments Australia Ltd.	BUY	3.05	Ordinary	2,917	2,917
11-Apr-19	Vanguard Investments Australia Ltd.	BUY	3.06	Ordinary	2,565	2,565
12-Apr-19	Vanguard Investments Australia Ltd.	SELL	3.08	Ordinary	(17,048)	(17,048)
15-Apr-19	Vanguard Investments Australia Ltd.	SELL	3.10	Ordinary	(2,009)	(2,009)
15-Apr-19	Vanguard Investments Australia Ltd.	BUY	3.10	Ordinary	5,832	5,832
16-Apr-19	Vanguard Investments Australia Ltd.	BUY	3.10	Ordinary	4,154	4,154
29-Apr-19	Vanguard Investments Australia Ltd.	BUY	3.08	Ordinary	8,748	8,748
29-Apr-19	Vanguard Investments Australia Ltd.	BUY	3.08	Ordinary	5,832	5,832
3-May-19	Vanguard Investments Australia Ltd.	SELL	3.05	Ordinary	(8,076)	(8,076)
3-May-19	Vanguard Investments Australia Ltd.	SELL	3.05	Ordinary	(31,280)	(31,280)
9-May-19	Vanguard Investments Australia Ltd.	BUY	3.03	Ordinary	8,748	8,748
10-May-19	Vanguard Investments Australia Ltd.	BUY	3.03	Ordinary	34,728	34,728
14-May-19	Vanguard Investments Australia Ltd.	BUY	3.01	Ordinary	5,788	5,788
16-May-19	Vanguard Investments Australia Ltd.	BUY	3.02	Ordinary	60,944	60,944
22-May-19	Vanguard Investments Australia Ltd.	BUY	3.13	Ordinary	11,576	11,576
24-May-19	Vanguard Investments Australia Ltd.	BUY	3.12	Ordinary	5,786	5,786
29-May-19	Vanguard Investments Australia Ltd.	BUY	3.12	Ordinary	8,676	8,676
30-May-19	Vanguard Investments Australia Ltd.	BUY	3.13	Ordinary	22,406	22,406
30-May-19	Vanguard Investments Australia Ltd.	BUY	3.13	Ordinary	5,748	5,748
30-May-19	Vanguard Investments Australia Ltd.	SELL	3.12	Ordinary	(100,419)	(100,419)
6-Jun-19	Vanguard Investments Australia Ltd.	BUY	3.23	Ordinary	5,748	5,748
6-Jun-19	Vanguard Investments Australia Ltd.	SELL	3.23	Ordinary	(2,176)	(2,176)
11-Jun-19	Vanguard Investments Australia Ltd.	BUY	3.27	Ordinary	11,496	11,496
14-Jun-19	Vanguard Investments Australia Ltd.	BUY	3.19	Ordinary	8,622	8,622
20-Jun-19	Vanguard Investments Australia Ltd.	SELL	3.19	Ordinary	(11,228)	(11,228)
20-Jun-19	Vanguard Investments Australia Ltd.	BUY	3.18	Ordinary	8,622	8,622
21-Jun-19	Vanguard Investments Australia Ltd.	BUY	3.23	Ordinary	11,496	11,496
27-Jun-19	Vanguard Investments Australia Ltd.	BUY	3.18	Ordinary	11,664	11,664
28-Jun-19	Vanguard Investments Australia Ltd.	SELL	3.20	Ordinary	(26,658)	(26,658)
1-Jul-19	Vanguard Investments Australia Ltd.	BUY	3.23	Ordinary	5,674	5,674
3-Jul-19	Vanguard Investments Australia Ltd.	BUY	3.25	Ordinary	11,340	11,340
11-Jul-19	Vanguard Investments Australia Ltd.	BUY	3.27	Ordinary	11,304	11,304
15-Jul-19	Vanguard Investments Australia Ltd.	BUY	3.27	Ordinary	8,478	8,478
16-Jul-19	Vanguard Investments Australia Ltd.	BUY	3.27	Ordinary	36,495	36,495
17-Jul-19	Vanguard Investments Australia Ltd.	SELL	3.29	Ordinary	(10,000)	(10,000)
17-Jul-19	Vanguard Investments Australia Ltd.	BUY	3.30	Ordinary	5,652	5,652
22-Jul-19	Vanguard Investments Australia Ltd.	BUY	3.26	Ordinary	8,478	8,478
22-Jul-19	Vanguard Investments Australia Ltd.	BUY	3.26	Ordinary	5,652	5,652
25-Jul-19	Vanguard Investments Australia Ltd.	BUY	3.30	Ordinary	8,478	8,478
29-Jul-19	Vanguard Investments Australia Ltd.	BUY	3.34	Ordinary	5,652	5,652
31-Jul-19	Vanguard Investments Australia Ltd.	BUY	3.42	Ordinary	5,652	5,652
2-Aug-19	Vanguard Investments Australia Ltd.	SELL	3.54	Ordinary	(10,948)	(10,948)
2-Aug-19	Vanguard Investments Australia Ltd.	BUY	3.53	Ordinary	5,646	5,646
6-Aug-19	Vanguard Investments Australia Ltd.	BUY	3.47	Ordinary	5,646	5,646
8-Aug-19	Vanguard Investments Australia Ltd.	BUY	3.53	Ordinary	8,469	8,469
9-Aug-19	Vanguard Investments Australia Ltd.	BUY	3.53	Ordinary	8,469	8,469
14-Aug-19	Vanguard Investments Australia Ltd.	BUY	3.52	Ordinary	5,670	5,670
19-Aug-19	Vanguard Investments Australia Ltd.	BUY	3.46	Ordinary	5,666	5,666
21-Aug-19	Vanguard Investments Australia Ltd.	BUY	3.60	Ordinary	8,499	8,499
27-Aug-19	Vanguard Investments Australia Ltd.	BUY	3.79	Ordinary	80,659	80,659
28-Aug-19	Vanguard Investments Australia Ltd.	BUY	3.87	Ordinary	67,694	67,694
2-Sep-19	Vanguard Investments Australia Ltd.	BUY	3.91	Ordinary	8,499	8,499
3-Sep-19	Vanguard Investments Australia Ltd.	BUY	3.98	Ordinary	36,386	36,386
5-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.03	Ordinary	8,490	8,490
5-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.03	Ordinary	43,274	43,274

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
10-Sep-19	Vanguard Investments Australia Ltd.	BUY	3.94	Ordinary	11,320	11,320
13-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.00	Ordinary	8,490	8,490
17-Sep-19	Vanguard Investments Australia Ltd.	BUY	3.95	Ordinary	8,490	8,490
19-Sep-19	Vanguard Investments Australia Ltd.	SELL	3.85	Ordinary	(7,742)	(7,742)
23-Sep-19	Vanguard Investments Australia Ltd.	BUY	3.84	Ordinary	8,451	8,451
24-Sep-19	Vanguard Investments Australia Ltd.	BUY	3.86	Ordinary	5,634	5,634
24-Sep-19	Vanguard Investments Australia Ltd.	BUY	3.87	Ordinary	16,348	16,348
26-Sep-19	Vanguard Investments Australia Ltd.	BUY	3.82	Ordinary	8,457	8,457
1-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.02	Ordinary	17,759	17,759
2-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.03	Ordinary	14,030	14,030
9-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.12	Ordinary	14,010	14,010
16-Oct-19	Vanguard Investments Australia Ltd.	BUY	3.93	Ordinary	9,713	9,713
16-Oct-19	Vanguard Investments Australia Ltd.	BUY	3.93	Ordinary	7,059	7,059
16-Oct-19	Vanguard Investments Australia Ltd.	BUY	3.93	Ordinary	97,714	97,714
16-Oct-19	Vanguard Investments Australia Ltd.	BUY	3.93	Ordinary	35,788	35,788
16-Oct-19	Vanguard Investments Australia Ltd.	BUY	3.93	Ordinary	9,489	9,489
16-Oct-19	Vanguard Investments Australia Ltd.	BUY	3.93	Ordinary	100,246	100,246
16-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.05	Ordinary	11,208	11,208
16-Oct-19	Vanguard Investments Australia Ltd.	BUY	3.93	Ordinary	708,245	708,245
16-Oct-19	Vanguard Investments Australia Ltd.	BUY	3.93	Ordinary	352,941	352,941
16-Oct-19	Vanguard Investments Australia Ltd.	BUY	3.93	Ordinary	220,482	220,482
21-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.23	Ordinary	9,387	9,387
28-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.31	Ordinary	9,387	9,387
29-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.31	Ordinary	23,206	23,206
30-Oct-19	Vanguard Investments Australia Ltd.	SELL	4.24	Ordinary	(5,787)	(5,787)
31-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.40	Ordinary	12,516	12,516
4-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.43	Ordinary	6,258	6,258
4-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.44	Ordinary	19,202	19,202
5-Nov-19	Vanguard Investments Australia Ltd.	SELL	4.40	Ordinary	(18,370)	(18,370)
6-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.35	Ordinary	12,504	12,504
7-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.39	Ordinary	16,095	16,095
11-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.35	Ordinary	6,252	6,252
12-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.30	Ordinary	9,378	9,378
15-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.45	Ordinary	6,252	6,252
20-Nov-19	Vanguard Investments Australia Ltd.	SELL	4.48	Ordinary	(21,382)	(21,382)
20-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.48	Ordinary	9,372	9,372
20-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.48	Ordinary	9,372	9,372
22-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.47	Ordinary	6,248	6,248
25-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.48	Ordinary	22,148	22,148
25-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.45	Ordinary	48,291	48,291
26-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.57	Ordinary	125,285	125,285
26-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.57	Ordinary	6,248	6,248
26-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.57	Ordinary	260,459	260,459
27-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.65	Ordinary	12,496	12,496
28-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	15,620	15,620
2-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.66	Ordinary	12,496	12,496
2-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.66	Ordinary	9,372	9,372
2-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.66	Ordinary	11,191	11,191
4-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.50	Ordinary	12,496	12,496
4-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.50	Ordinary	12,496	12,496
6-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.51	Ordinary	68,766	68,766
6-Dec-19	Vanguard Investments Australia Ltd.	SELL	4.51	Ordinary	(5,519)	(5,519)
6-Dec-19	Vanguard Investments Australia Ltd.	SELL	4.53	Ordinary	(68,766)	(68,766)
6-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.51	Ordinary	9,372	9,372
6-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.51	Ordinary	50,317	50,317
9-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.49	Ordinary	27,526	27,526
11-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.44	Ordinary	9,710	9,710
11-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.44	Ordinary	9,369	9,369
11-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.44	Ordinary	9,369	9,369
12-Dec-19	Vanguard Investments Australia Ltd.	SELL	4.42	Ordinary	(11,261)	(11,261)
13-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.48	Ordinary	12,484	12,484
13-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.48	Ordinary	12,484	12,484
16-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.53	Ordinary	3,198	3,198
18-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.64	Ordinary	12,480	12,480
18-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.63	Ordinary	59,632	59,632
19-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.62	Ordinary	7,481	7,481
19-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.62	Ordinary	18,879	18,879
19-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.62	Ordinary	3,033	3,033
19-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.61	Ordinary	12,480	12,480

Annexure A

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
19-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.62	Ordinary	22,816	22,816
19-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.62	Ordinary	8,382	8,382
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	12,857	12,857
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	98,778	98,778
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	1,021	1,021
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	7,847	7,847
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	844	844
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	6,482	6,482
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	10,410	10,410
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	79,981	79,981
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	954	954
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	7,328	7,328
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	26,274	26,274
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	201,856	201,856
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	4,220	4,220
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	32,417	32,417
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.80	Ordinary	12,480	12,480
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	31,754	31,754
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	243,958	243,958
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	11,666	11,666
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	89,624	89,624

This is Annexure A of 9 pages referred to in Form 604, Notice of change of interests of substantial holder.

Signature

Date

24-Dec-19