

Form 604
Corporations Act 2001
Section 671B

Notice of change of interests of substantial holder

To Company Name/Scheme
ACN/ARSN

Charter Hall Group
113 531 150

1. Details of substantial holder (1)

Name

The Vanguard Group, Inc.

ACN/ARSN (if applicable)

N/A

There was a change in the interests of the
substantial holder on

16 April 2019

The previous notice was given to the company on

01 March 2018

The previous notice was dated

01 March 2018

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)
Ordinary (Vanguard Investments Australia Ltd)	29,504,783	6.335%	32,345,476	6.944%
Ordinary (The Vanguard Group, Inc.)	13,448,503	2.887%	15,295,668	3.284%
Total	42,953,286	9.222%	47,641,144	10.228%

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 Investments Australia Ltd	JP Morgan Chase Bank, N.A. and various other custodians	Vanguard Investments Australia Ltd is the manager of various superannuation funds, institutional investor portfolios and unit trusts and in that capacity can exercise the power to vote and/or dispose of the shares	Beneficial Owner	Ordinary – 32,345,476	32,345,476
The Vanguard Group, Inc.	JP Morgan Chase Bank, N.A.	The Vanguard Group, Inc. is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares	Beneficial Owner	Ordinary – 7,575,797	7,575,797
The Vanguard Group, Inc.	Brown Brothers Harriman	The Vanguard Group, Inc. is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares	Beneficial Owner	Ordinary – 150,341	150,341
The Vanguard Group, Inc.	BNY Mellon	The Vanguard Group, Inc., is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares	Beneficial Owner	Ordinary – 1,758,133	1,758,133
The Vanguard Group, Inc.	State Street Bank and Trust Company	The Vanguard Group, Inc., is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares	Beneficial Owner	Ordinary – 5,811,397	5,811,397

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 Investments Australia Ltd	Level 34, 2 Southbank Blvd, Southbank 3006 VIC Australia
The Vanguard Group, Inc.	P.O. Box 2600, V26 Valley Forge, PA 19482 USA

Signature

print name SHAWN ACKER capacity MANAGER
sign here  date 18 April 2019

To Company Charter Hall Group
ACN/ARSN 113 531 150

Substantial Holder Name The Vanguard Group, Inc.
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
27-Feb-18	The Vanguard Group, Inc.	Sell	5.83	Ordinary	(6,310)	(6,310)
28-Feb-18	The Vanguard Group, Inc.	Buy	5.81	Ordinary	5,571	5,571
1-Mar-18	The Vanguard Group, Inc.	Sell	5.77	Ordinary	(6,941)	(6,941)
5-Mar-18	The Vanguard Group, Inc.	Sell	5.85	Ordinary	(22,500)	(22,500)
12-Mar-18	The Vanguard Group, Inc.	Sell	5.89	Ordinary	(3,155)	(3,155)
14-Mar-18	The Vanguard Group, Inc.	Buy	5.86	Ordinary	902	902
15-Mar-18	The Vanguard Group, Inc.	Buy	5.85	Ordinary	10,000	10,000
16-Mar-18	The Vanguard Group, Inc.	Sell	5.90	Ordinary	(4,417)	(4,417)
16-Mar-18	The Vanguard Group, Inc.	Buy	5.89	Ordinary	33,377	33,377
16-Mar-18	The Vanguard Group, Inc.	Sell	5.89	Ordinary	(7,234)	(7,234)
16-Mar-18	The Vanguard Group, Inc.	Buy	5.89	Ordinary	2,130	2,130
20-Mar-18	The Vanguard Group, Inc.	Buy	5.83	Ordinary	163,814	163,814
20-Mar-18	The Vanguard Group, Inc.	Buy	5.81	Ordinary	6,846	6,846
22-Mar-18	The Vanguard Group, Inc.	Sell	5.78	Ordinary	(306)	(306)
23-Mar-18	The Vanguard Group, Inc.	Buy	5.66	Ordinary	5,705	5,705
23-Mar-18	The Vanguard Group, Inc.	Buy	5.66	Ordinary	11,410	11,410
23-Mar-18	The Vanguard Group, Inc.	Buy	5.66	Ordinary	7,695	7,695
26-Mar-18	The Vanguard Group, Inc.	Buy	5.71	Ordinary	3,423	3,423
28-Mar-18	The Vanguard Group, Inc.	Buy	5.75	Ordinary	4,564	4,564
3-Apr-18	The Vanguard Group, Inc.	Buy	5.66	Ordinary	6,507	6,507
3-Apr-18	The Vanguard Group, Inc.	Buy	5.66	Ordinary	4,338	4,338
5-Apr-18	The Vanguard Group, Inc.	Sell	5.70	Ordinary	(2,145)	(2,145)
10-Apr-18	The Vanguard Group, Inc.	Buy	5.81	Ordinary	17,955	17,955
12-Apr-18	The Vanguard Group, Inc.	Buy	5.69	Ordinary	7,695	7,695
13-Apr-18	The Vanguard Group, Inc.	Buy	5.68	Ordinary	6,507	6,507
16-Apr-18	The Vanguard Group, Inc.	Buy	5.68	Ordinary	17,955	17,955
26-Apr-18	The Vanguard Group, Inc.	Buy	5.78	Ordinary	18,256	18,256
1-May-18	The Vanguard Group, Inc.	Sell	6.06	Ordinary	(2,145)	(2,145)
2-May-18	The Vanguard Group, Inc.	Buy	6.13	Ordinary	17,955	17,955
2-May-18	The Vanguard Group, Inc.	Buy	6.13	Ordinary	10,260	10,260
7-May-18	The Vanguard Group, Inc.	Buy	6.25	Ordinary	6,846	6,846
9-May-18	The Vanguard Group, Inc.	Buy	6.26	Ordinary	17,115	17,115
15-May-18	The Vanguard Group, Inc.	Buy	6.25	Ordinary	13,692	13,692
17-May-18	The Vanguard Group, Inc.	Buy	6.10	Ordinary	4,338	4,338
21-May-18	The Vanguard Group, Inc.	Buy	6.14	Ordinary	6,507	6,507
22-May-18	The Vanguard Group, Inc.	Buy	6.09	Ordinary	7,987	7,987
23-May-18	The Vanguard Group, Inc.	Buy	6.27	Ordinary	19,521	19,521
24-May-18	The Vanguard Group, Inc.	Sell	6.31	Ordinary	(1,430)	(1,430)
25-May-18	The Vanguard Group, Inc.	Buy	6.39	Ordinary	3,423	3,423
31-May-18	The Vanguard Group, Inc.	Buy	6.35	Ordinary	6,507	6,507
1-Jun-18	The Vanguard Group, Inc.	Buy	6.39	Ordinary	5,705	5,705
4-Jun-18	The Vanguard Group, Inc.	Buy	6.43	Ordinary	11,659	11,659
5-Jun-18	The Vanguard Group, Inc.	Buy	6.36	Ordinary	118,736	118,736
5-Jun-18	The Vanguard Group, Inc.	Buy	6.33	Ordinary	7,695	7,695
11-Jun-18	The Vanguard Group, Inc.	Buy	6.38	Ordinary	17,352	17,352
13-Jun-18	The Vanguard Group, Inc.	Buy	6.39	Ordinary	6,507	6,507
15-Jun-18	The Vanguard Group, Inc.	Sell	6.44	Ordinary	(49,396)	(49,396)
15-Jun-18	The Vanguard Group, Inc.	Buy	6.44	Ordinary	10,869	10,869
18-Jun-18	The Vanguard Group, Inc.	Buy	6.51	Ordinary	38,610	38,610
18-Jun-18	The Vanguard Group, Inc.	Buy	6.51	Ordinary	7,722	7,722
19-Jun-18	The Vanguard Group, Inc.	Buy	6.52	Ordinary	3,922	3,922
22-Jun-18	The Vanguard Group, Inc.	Buy	6.59	Ordinary	11,766	11,766
27-Jun-18	The Vanguard Group, Inc.	Sell	6.59	Ordinary	(634)	(634)
9-Jul-18	The Vanguard Group, Inc.	Buy	6.67	Ordinary	7,722	7,722
12-Jul-18	The Vanguard Group, Inc.	Sell	6.66	Ordinary	(5,036)	(5,036)
17-Jul-18	The Vanguard Group, Inc.	Buy	6.59	Ordinary	110,413	110,413
18-Jul-18	The Vanguard Group, Inc.	Sell	6.59	Ordinary	(15,444)	(15,444)
19-Jul-18	The Vanguard Group, Inc.	Buy	6.59	Ordinary	7,844	7,844
23-Jul-18	The Vanguard Group, Inc.	Sell	6.63	Ordinary	(2,145)	(2,145)
23-Jul-18	The Vanguard Group, Inc.	Buy	6.65	Ordinary	25,869	25,869

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
24-Jul-18	The Vanguard Group, Inc.	Buy	6.59	Ordinary	7,844	7,844
25-Jul-18	The Vanguard Group, Inc.	Sell	6.60	Ordinary	(2,145)	(2,145)
25-Jul-18	The Vanguard Group, Inc.	Sell	6.60	Ordinary	(1,430)	(1,430)
25-Jul-18	The Vanguard Group, Inc.	Sell	6.60	Ordinary	(10,725)	(10,725)
25-Jul-18	The Vanguard Group, Inc.	Sell	6.58	Ordinary	(476)	(476)
30-Jul-18	The Vanguard Group, Inc.	Buy	6.64	Ordinary	3,922	3,922
31-Jul-18	The Vanguard Group, Inc.	Buy	6.70	Ordinary	11,766	11,766
31-Jul-18	The Vanguard Group, Inc.	Buy	6.70	Ordinary	5,883	5,883
2-Aug-18	The Vanguard Group, Inc.	Sell	6.74	Ordinary	(7,150)	(7,150)
3-Aug-18	The Vanguard Group, Inc.	Buy	6.82	Ordinary	5,883	5,883
3-Aug-18	The Vanguard Group, Inc.	Buy	6.82	Ordinary	5,883	5,883
3-Aug-18	The Vanguard Group, Inc.	Buy	6.81	Ordinary	829	829
6-Aug-18	The Vanguard Group, Inc.	Buy	6.91	Ordinary	7,844	7,844
9-Aug-18	The Vanguard Group, Inc.	Sell	6.89	Ordinary	(18,018)	(18,018)
9-Aug-18	The Vanguard Group, Inc.	Buy	6.89	Ordinary	5,883	5,883
9-Aug-18	The Vanguard Group, Inc.	Buy	6.89	Ordinary	3,922	3,922
10-Aug-18	The Vanguard Group, Inc.	Sell	6.86	Ordinary	(17,160)	(17,160)
13-Aug-18	The Vanguard Group, Inc.	Buy	6.87	Ordinary	8,906	8,906
15-Aug-18	The Vanguard Group, Inc.	Sell	7.09	Ordinary	(8,580)	(8,580)
15-Aug-18	The Vanguard Group, Inc.	Buy	7.04	Ordinary	103,059	103,059
16-Aug-18	The Vanguard Group, Inc.	Buy	7.07	Ordinary	5,883	5,883
17-Aug-18	The Vanguard Group, Inc.	Buy	7.13	Ordinary	109,007	109,007
24-Aug-18	The Vanguard Group, Inc.	Buy	6.90	Ordinary	3,922	3,922
5-Sep-18	The Vanguard Group, Inc.	Sell	7.19	Ordinary	(1,038)	(1,038)
6-Sep-18	The Vanguard Group, Inc.	Buy	7.16	Ordinary	127,302	127,302
7-Sep-18	The Vanguard Group, Inc.	Buy	7.14	Ordinary	127,166	127,166
7-Sep-18	The Vanguard Group, Inc.	Buy	7.16	Ordinary	5,036	5,036
7-Sep-18	The Vanguard Group, Inc.	Sell	7.16	Ordinary	(1,961)	(1,961)
11-Sep-18	The Vanguard Group, Inc.	Buy	7.19	Ordinary	20,592	20,592
12-Sep-18	The Vanguard Group, Inc.	Buy	7.17	Ordinary	7,554	7,554
18-Sep-18	The Vanguard Group, Inc.	Buy	7.27	Ordinary	747	747
21-Sep-18	The Vanguard Group, Inc.	Buy	7.07	Ordinary	29,267	29,267
21-Sep-18	The Vanguard Group, Inc.	Buy	7.07	Ordinary	51,275	51,275
26-Sep-18	The Vanguard Group, Inc.	Buy	7.19	Ordinary	4,508	4,508
26-Sep-18	The Vanguard Group, Inc.	Buy	7.19	Ordinary	9,016	9,016
26-Sep-18	The Vanguard Group, Inc.	Buy	7.19	Ordinary	11,270	11,270
1-Oct-18	The Vanguard Group, Inc.	Buy	7.10	Ordinary	6,762	6,762
2-Oct-18	The Vanguard Group, Inc.	Buy	7.07	Ordinary	18,032	18,032
3-Oct-18	The Vanguard Group, Inc.	Buy	7.08	Ordinary	6,762	6,762
11-Oct-18	The Vanguard Group, Inc.	Buy	6.83	Ordinary	4,218	4,218
12-Oct-18	The Vanguard Group, Inc.	Sell	6.83	Ordinary	(20,504)	(20,504)
12-Oct-18	The Vanguard Group, Inc.	Buy	6.82	Ordinary	1,806	1,806
15-Oct-18	The Vanguard Group, Inc.	Buy	6.73	Ordinary	7,030	7,030
19-Oct-18	The Vanguard Group, Inc.	Buy	7.02	Ordinary	4,218	4,218
19-Oct-18	The Vanguard Group, Inc.	Buy	7.02	Ordinary	6,762	6,762
23-Oct-18	The Vanguard Group, Inc.	Sell	7.07	Ordinary	(7,689)	(7,689)
23-Oct-18	The Vanguard Group, Inc.	Sell	7.07	Ordinary	(20,504)	(20,504)
25-Oct-18	The Vanguard Group, Inc.	Buy	6.96	Ordinary	5,635	5,635
26-Oct-18	The Vanguard Group, Inc.	Buy	6.88	Ordinary	8,031	8,031
29-Oct-18	The Vanguard Group, Inc.	Sell	6.84	Ordinary	(10,252)	(10,252)
29-Oct-18	The Vanguard Group, Inc.	Sell	6.84	Ordinary	(10,252)	(10,252)
31-Oct-18	The Vanguard Group, Inc.	Buy	6.91	Ordinary	7,889	7,889
31-Oct-18	The Vanguard Group, Inc.	Sell	6.91	Ordinary	(7,689)	(7,689)
31-Oct-18	The Vanguard Group, Inc.	Sell	6.91	Ordinary	(33,319)	(33,319)
1-Nov-18	The Vanguard Group, Inc.	Buy	6.80	Ordinary	11,270	11,270
2-Nov-18	The Vanguard Group, Inc.	Buy	6.78	Ordinary	8,378	8,378
7-Nov-18	The Vanguard Group, Inc.	Buy	6.92	Ordinary	9,016	9,016
9-Nov-18	The Vanguard Group, Inc.	Buy	7.05	Ordinary	111,390	111,390
12-Nov-18	The Vanguard Group, Inc.	Buy	7.08	Ordinary	6,762	6,762
12-Nov-18	The Vanguard Group, Inc.	Buy	7.08	Ordinary	2,970	2,970
14-Nov-18	The Vanguard Group, Inc.	Buy	6.90	Ordinary	6,762	6,762
14-Nov-18	The Vanguard Group, Inc.	Buy	6.90	Ordinary	9,016	9,016
14-Nov-18	The Vanguard Group, Inc.	Buy	6.93	Ordinary	39,267	39,267
15-Nov-18	The Vanguard Group, Inc.	Buy	6.86	Ordinary	4,455	4,455
21-Nov-18	The Vanguard Group, Inc.	Buy	6.87	Ordinary	9,016	9,016
28-Nov-18	The Vanguard Group, Inc.	Buy	7.11	Ordinary	703	703
28-Nov-18	The Vanguard Group, Inc.	Buy	7.11	Ordinary	4,218	4,218

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-Nov-18	The Vanguard Group, Inc.	Buy	7.11	Ordinary	5,635	5,635
30-Nov-18	The Vanguard Group, Inc.	Buy	7.01	Ordinary	4,455	4,455
4-Dec-18	The Vanguard Group, Inc.	Buy	6.94	Ordinary	9,016	9,016
4-Dec-18	The Vanguard Group, Inc.	Buy	6.94	Ordinary	4,455	4,455
5-Dec-18	The Vanguard Group, Inc.	Buy	6.97	Ordinary	19,423	19,423
6-Dec-18	The Vanguard Group, Inc.	Buy	7.28	Ordinary	5,940	5,940
7-Dec-18	The Vanguard Group, Inc.	Buy	7.31	Ordinary	7,889	7,889
7-Dec-18	The Vanguard Group, Inc.	Buy	7.31	Ordinary	9,016	9,016
7-Dec-18	The Vanguard Group, Inc.	Buy	7.31	Ordinary	5,940	5,940
11-Dec-18	The Vanguard Group, Inc.	Buy	7.43	Ordinary	107,835	107,835
11-Dec-18	The Vanguard Group, Inc.	Buy	7.45	Ordinary	9,016	9,016
11-Dec-18	The Vanguard Group, Inc.	Buy	7.45	Ordinary	6,762	6,762
11-Dec-18	The Vanguard Group, Inc.	Buy	7.45	Ordinary	5,940	5,940
12-Dec-18	The Vanguard Group, Inc.	Buy	7.57	Ordinary	6,762	6,762
12-Dec-18	The Vanguard Group, Inc.	Buy	7.57	Ordinary	19,159	19,159
12-Dec-18	The Vanguard Group, Inc.	Buy	7.57	Ordinary	6,762	6,762
12-Dec-18	The Vanguard Group, Inc.	Buy	7.57	Ordinary	7,689	7,689
12-Dec-18	The Vanguard Group, Inc.	Buy	7.51	Ordinary	22,114	22,114
14-Dec-18	The Vanguard Group, Inc.	Buy	7.51	Ordinary	6,762	6,762
14-Dec-18	The Vanguard Group, Inc.	Buy	7.51	Ordinary	4,455	4,455
14-Dec-18	The Vanguard Group, Inc.	Sell	7.53	Ordinary	(1,018)	(1,018)
17-Dec-18	The Vanguard Group, Inc.	Buy	7.50	Ordinary	13,524	13,524
19-Dec-18	The Vanguard Group, Inc.	Sell	7.44	Ordinary	(15,378)	(15,378)
19-Dec-18	The Vanguard Group, Inc.	Buy	7.44	Ordinary	5,940	5,940
20-Dec-18	The Vanguard Group, Inc.	Buy	7.59	Ordinary	9,016	9,016
21-Dec-18	The Vanguard Group, Inc.	Sell	7.56	Ordinary	(88,446)	(88,446)
21-Dec-18	The Vanguard Group, Inc.	Buy	7.56	Ordinary	576	576
21-Dec-18	The Vanguard Group, Inc.	Buy	7.56	Ordinary	187	187
2-Jan-19	The Vanguard Group, Inc.	Buy	7.38	Ordinary	13,272	13,272
2-Jan-19	The Vanguard Group, Inc.	Buy	7.38	Ordinary	19,908	19,908
2-Jan-19	The Vanguard Group, Inc.	Buy	7.38	Ordinary	6,636	6,636
3-Jan-19	The Vanguard Group, Inc.	Buy	7.34	Ordinary	4,977	4,977
4-Jan-19	The Vanguard Group, Inc.	Buy	7.37	Ordinary	1,659	1,659
10-Jan-19	The Vanguard Group, Inc.	Buy	7.47	Ordinary	4,984	4,984
11-Jan-19	The Vanguard Group, Inc.	Buy	7.52	Ordinary	9,968	9,968
15-Jan-19	The Vanguard Group, Inc.	Sell	7.52	Ordinary	(2,492)	(2,492)
16-Jan-19	The Vanguard Group, Inc.	Sell	7.55	Ordinary	(49,840)	(49,840)
17-Jan-19	The Vanguard Group, Inc.	Sell	7.51	Ordinary	(18,483)	(18,483)
17-Jan-19	The Vanguard Group, Inc.	Sell	7.49	Ordinary	(4,788)	(4,788)
22-Jan-19	The Vanguard Group, Inc.	Sell	7.65	Ordinary	(4,788)	(4,788)
22-Jan-19	The Vanguard Group, Inc.	Buy	7.66	Ordinary	232	232
23-Jan-19	The Vanguard Group, Inc.	Sell	7.80	Ordinary	(10,374)	(10,374)
24-Jan-19	The Vanguard Group, Inc.	Sell	7.97	Ordinary	(10,374)	(10,374)
24-Jan-19	The Vanguard Group, Inc.	Buy	7.96	Ordinary	8,075	8,075
29-Jan-19	The Vanguard Group, Inc.	Sell	8.13	Ordinary	(15,162)	(15,162)
29-Jan-19	The Vanguard Group, Inc.	Sell	8.13	Ordinary	(6,384)	(6,384)
29-Jan-19	The Vanguard Group, Inc.	Sell	8.13	Ordinary	(6,384)	(6,384)
29-Jan-19	The Vanguard Group, Inc.	Sell	8.13	Ordinary	(6,636)	(6,636)
1-Feb-19	The Vanguard Group, Inc.	Sell	8.23	Ordinary	(9,968)	(9,968)
1-Feb-19	The Vanguard Group, Inc.	Sell	8.23	Ordinary	(12,460)	(12,460)
1-Feb-19	The Vanguard Group, Inc.	Sell	8.23	Ordinary	(6,636)	(6,636)
1-Feb-19	The Vanguard Group, Inc.	Sell	8.23	Ordinary	(8,295)	(8,295)
7-Feb-19	The Vanguard Group, Inc.	Sell	8.58	Ordinary	(4,248)	(4,248)
7-Feb-19	The Vanguard Group, Inc.	Sell	8.58	Ordinary	(6,636)	(6,636)
8-Feb-19	The Vanguard Group, Inc.	Sell	8.70	Ordinary	(4,977)	(4,977)
13-Feb-19	The Vanguard Group, Inc.	Sell	8.46	Ordinary	(11,613)	(11,613)
15-Feb-19	The Vanguard Group, Inc.	Sell	8.60	Ordinary	(6,636)	(6,636)
22-Feb-19	The Vanguard Group, Inc.	Sell	8.87	Ordinary	(8,295)	(8,295)
25-Feb-19	The Vanguard Group, Inc.	Buy	8.88	Ordinary	2,492	2,492
25-Feb-19	The Vanguard Group, Inc.	Sell	8.88	Ordinary	(4,977)	(4,977)
25-Feb-19	The Vanguard Group, Inc.	Sell	8.88	Ordinary	(3,318)	(3,318)
25-Feb-19	The Vanguard Group, Inc.	Sell	8.88	Ordinary	(3,318)	(3,318)
26-Feb-19	The Vanguard Group, Inc.	Buy	8.70	Ordinary	3,990	3,990
1-Mar-19	The Vanguard Group, Inc.	Buy	8.94	Ordinary	7,476	7,476
1-Mar-19	The Vanguard Group, Inc.	Buy	8.94	Ordinary	6,981	6,981
1-Mar-19	The Vanguard Group, Inc.	Buy	8.94	Ordinary	376	376
5-Mar-19	The Vanguard Group, Inc.	Buy	9.18	Ordinary	4,788	4,788

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
5-Mar-19	The Vanguard Group, Inc.	Buy	9.18	Ordinary	12,460	12,460
5-Mar-19	The Vanguard Group, Inc.	Buy	9.18	Ordinary	4,360	4,360
8-Mar-19	The Vanguard Group, Inc.	Buy	9.30	Ordinary	3,990	3,990
12-Mar-19	The Vanguard Group, Inc.	Buy	9.35	Ordinary	150,149	150,149
12-Mar-19	The Vanguard Group, Inc.	Buy	9.35	Ordinary	2,272	2,272
15-Mar-19	The Vanguard Group, Inc.	Buy	9.58	Ordinary	15,021	15,021
15-Mar-19	The Vanguard Group, Inc.	Buy	9.58	Ordinary	198	198
15-Mar-19	The Vanguard Group, Inc.	Sell	9.58	Ordinary	(2,592)	(2,592)
20-Mar-19	The Vanguard Group, Inc.	Buy	9.74	Ordinary	2,394	2,394
20-Mar-19	The Vanguard Group, Inc.	Buy	9.74	Ordinary	4,125	4,125
27-Mar-19	The Vanguard Group, Inc.	Buy	10.15	Ordinary	9,564	9,564
27-Mar-19	The Vanguard Group, Inc.	Sell	10.15	Ordinary	(3,340)	(3,340)
1-Apr-19	The Vanguard Group, Inc.	Buy	10.15	Ordinary	3,192	3,192
5-Apr-19	The Vanguard Group, Inc.	Buy	9.89	Ordinary	7,380	7,380
5-Apr-19	The Vanguard Group, Inc.	Buy	9.89	Ordinary	2,460	2,460
9-Apr-19	The Vanguard Group, Inc.	Buy	9.97	Ordinary	4,108	4,108
16-Apr-19	The Vanguard Group, Inc.	Buy	10.01	Ordinary	28,825	28,825
16-Apr-19	The Vanguard Group, Inc.	Buy	9.83	Ordinary	16,842	16,842
27-Feb-18	Vanguard Investments Australia Ltd	Buy	5.88	Ordinary	59,140	59,140
1-Mar-18	Vanguard Investments Australia Ltd	Buy	5.79	Ordinary	2,493	2,493
5-Mar-18	Vanguard Investments Australia Ltd	Sell	5.80	Ordinary	(2,494)	(2,494)
13-Mar-18	Vanguard Investments Australia Ltd	Buy	5.90	Ordinary	1,385	1,385
15-Mar-18	Vanguard Investments Australia Ltd	Buy	5.85	Ordinary	6,942	6,942
15-Mar-18	Vanguard Investments Australia Ltd	Buy	5.85	Ordinary	3,051	3,051
21-Mar-18	Vanguard Investments Australia Ltd	Sell	5.84	Ordinary	(88,214)	(88,214)
21-Mar-18	Vanguard Investments Australia Ltd	Buy	5.84	Ordinary	1,878	1,878
22-Mar-18	Vanguard Investments Australia Ltd	Sell	5.78	Ordinary	(3,333)	(3,333)
26-Mar-18	Vanguard Investments Australia Ltd	Sell	5.67	Ordinary	(25,696)	(25,696)
26-Mar-18	Vanguard Investments Australia Ltd	Buy	5.67	Ordinary	9,312	9,312
27-Mar-18	Vanguard Investments Australia Ltd	Buy	5.69	Ordinary	18,472	18,472
27-Mar-18	Vanguard Investments Australia Ltd	Buy	5.71	Ordinary	3,443	3,443
29-Mar-18	Vanguard Investments Australia Ltd	Sell	5.74	Ordinary	(151,915)	(151,915)
29-Mar-18	Vanguard Investments Australia Ltd	Buy	5.73	Ordinary	20,395	20,395
5-Apr-18	Vanguard Investments Australia Ltd	Buy	5.71	Ordinary	26,845	26,845
5-Apr-18	Vanguard Investments Australia Ltd	Sell	5.69	Ordinary	(3,632)	(3,632)
5-Apr-18	Vanguard Investments Australia Ltd	Buy	5.69	Ordinary	3,768	3,768
6-Apr-18	Vanguard Investments Australia Ltd	Buy	5.73	Ordinary	20,702	20,702
12-Apr-18	Vanguard Investments Australia Ltd	Buy	5.74	Ordinary	3,749	3,749
12-Apr-18	Vanguard Investments Australia Ltd	Buy	5.74	Ordinary	12,260	12,260
19-Apr-18	Vanguard Investments Australia Ltd	Sell	5.67	Ordinary	(9,323)	(9,323)
19-Apr-18	Vanguard Investments Australia Ltd	Buy	5.67	Ordinary	3,768	3,768
20-Apr-18	Vanguard Investments Australia Ltd	Buy	5.62	Ordinary	6,990	6,990
24-Apr-18	Vanguard Investments Australia Ltd	Buy	5.70	Ordinary	4,660	4,660
2-May-18	Vanguard Investments Australia Ltd	Sell	6.14	Ordinary	(4,948)	(4,948)
2-May-18	Vanguard Investments Australia Ltd	Buy	6.14	Ordinary	11,650	11,650
4-May-18	Vanguard Investments Australia Ltd	Buy	6.19	Ordinary	1,884	1,884
8-May-18	Vanguard Investments Australia Ltd	Buy	6.22	Ordinary	11,980	11,980
11-May-18	Vanguard Investments Australia Ltd	Sell	6.18	Ordinary	(3,223)	(3,223)
17-May-18	Vanguard Investments Australia Ltd	Sell	6.10	Ordinary	(57,161)	(57,161)
17-May-18	Vanguard Investments Australia Ltd	Buy	6.10	Ordinary	6,990	6,990
18-May-18	Vanguard Investments Australia Ltd	Buy	6.16	Ordinary	2,198	2,198
22-May-18	Vanguard Investments Australia Ltd	Buy	6.10	Ordinary	6,206	6,206
22-May-18	Vanguard Investments Australia Ltd	Buy	6.10	Ordinary	2,512	2,512
23-May-18	Vanguard Investments Australia Ltd	Sell	6.26	Ordinary	(15,318)	(15,318)
23-May-18	Vanguard Investments Australia Ltd	Buy	6.26	Ordinary	4,301	4,301
28-May-18	Vanguard Investments Australia Ltd	Sell	6.45	Ordinary	(3,155)	(3,155)
29-May-18	Vanguard Investments Australia Ltd	Buy	6.38	Ordinary	6,206	6,206
29-May-18	Vanguard Investments Australia Ltd	Buy	6.38	Ordinary	29,351	29,351
31-May-18	Vanguard Investments Australia Ltd	Sell	6.36	Ordinary	(17,780)	(17,780)
31-May-18	Vanguard Investments Australia Ltd	Buy	6.37	Ordinary	2,198	2,198
1-Jun-18	Vanguard Investments Australia Ltd	Buy	6.37	Ordinary	18,153	18,153
1-Jun-18	Vanguard Investments Australia Ltd	Buy	6.37	Ordinary	18,572	18,572
4-Jun-18	Vanguard Investments Australia Ltd	Buy	6.44	Ordinary	40,379	40,379
4-Jun-18	Vanguard Investments Australia Ltd	Buy	6.44	Ordinary	289,052	289,052
4-Jun-18	Vanguard Investments Australia Ltd	Buy	6.43	Ordinary	11,180	11,180
6-Jun-18	Vanguard Investments Australia Ltd	Buy	6.36	Ordinary	24,820	24,820
8-Jun-18	Vanguard Investments Australia Ltd	Buy	6.36	Ordinary	2,198	2,198

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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-Jun-18	Vanguard Investments Australia Ltd	Buy	6.38	Ordinary	3,140	3,140
15-Jun-18	Vanguard Investments Australia Ltd	Sell	6.44	Ordinary	(88,160)	(88,160)
25-Jun-18	Vanguard Investments Australia Ltd	Buy	6.56	Ordinary	8,944	8,944
28-Jun-18	Vanguard Investments Australia Ltd	Buy	6.54	Ordinary	198,340	198,340
29-Jun-18	Vanguard Investments Australia Ltd	Buy	6.52	Ordinary	12,640	12,640
29-Jun-18	Vanguard Investments Australia Ltd	Sell	6.52	Ordinary	(4,606)	(4,606)
29-Jun-18	Vanguard Investments Australia Ltd	Sell	6.52	Ordinary	(18,607)	(18,607)
2-Jul-18	Vanguard Investments Australia Ltd	Sell	6.59	Ordinary	(3,091)	(3,091)
3-Jul-18	Vanguard Investments Australia Ltd	Buy	6.59	Ordinary	19,796	19,796
5-Jul-18	Vanguard Investments Australia Ltd	Buy	6.64	Ordinary	21,861	21,861
5-Jul-18	Vanguard Investments Australia Ltd	Sell	6.62	Ordinary	(6,597)	(6,597)
5-Jul-18	Vanguard Investments Australia Ltd	Buy	6.62	Ordinary	6,279	6,279
6-Jul-18	Vanguard Investments Australia Ltd	Buy	6.70	Ordinary	10,869	10,869
6-Jul-18	Vanguard Investments Australia Ltd	Buy	6.70	Ordinary	19,357	19,357
6-Jul-18	Vanguard Investments Australia Ltd	Buy	6.67	Ordinary	12,558	12,558
6-Jul-18	Vanguard Investments Australia Ltd	Buy	6.67	Ordinary	3,312	3,312
9-Jul-18	Vanguard Investments Australia Ltd	Buy	6.66	Ordinary	6,645	6,645
12-Jul-18	Vanguard Investments Australia Ltd	Sell	6.65	Ordinary	(63,268)	(63,268)
16-Jul-18	Vanguard Investments Australia Ltd	Buy	6.63	Ordinary	12,558	12,558
16-Jul-18	Vanguard Investments Australia Ltd	Buy	6.63	Ordinary	2,208	2,208
17-Jul-18	Vanguard Investments Australia Ltd	Buy	6.58	Ordinary	21,425	21,425
18-Jul-18	Vanguard Investments Australia Ltd	Sell	6.59	Ordinary	(8,233)	(8,233)
18-Jul-18	Vanguard Investments Australia Ltd	Sell	6.59	Ordinary	(3,635)	(3,635)
18-Jul-18	Vanguard Investments Australia Ltd	Buy	6.59	Ordinary	12,558	12,558
20-Jul-18	Vanguard Investments Australia Ltd	Buy	6.62	Ordinary	3,784	3,784
23-Jul-18	Vanguard Investments Australia Ltd	Buy	6.62	Ordinary	6,645	6,645
24-Jul-18	Vanguard Investments Australia Ltd	Sell	6.60	Ordinary	(3,026)	(3,026)
26-Jul-18	Vanguard Investments Australia Ltd	Buy	6.61	Ordinary	12,558	12,558
2-Aug-18	Vanguard Investments Australia Ltd	Buy	6.71	Ordinary	8,860	8,860
2-Aug-18	Vanguard Investments Australia Ltd	Buy	6.71	Ordinary	3,330	3,330
3-Aug-18	Vanguard Investments Australia Ltd	Buy	6.81	Ordinary	25,116	25,116
3-Aug-18	Vanguard Investments Australia Ltd	Buy	6.81	Ordinary	18,583	18,583
9-Aug-18	Vanguard Investments Australia Ltd	Buy	6.89	Ordinary	12,558	12,558
10-Aug-18	Vanguard Investments Australia Ltd	Buy	6.86	Ordinary	35,471	35,471
13-Aug-18	Vanguard Investments Australia Ltd	Buy	6.87	Ordinary	1,490	1,490
13-Aug-18	Vanguard Investments Australia Ltd	Buy	6.83	Ordinary	238	238
13-Aug-18	Vanguard Investments Australia Ltd	Buy	6.87	Ordinary	69,329	69,329
13-Aug-18	Vanguard Investments Australia Ltd	Buy	6.83	Ordinary	5,997	5,997
13-Aug-18	Vanguard Investments Australia Ltd	Buy	6.87	Ordinary	8,860	8,860
14-Aug-18	Vanguard Investments Australia Ltd	Buy	6.95	Ordinary	99,233	99,233
15-Aug-18	Vanguard Investments Australia Ltd	Buy	7.10	Ordinary	12,666	12,666
15-Aug-18	Vanguard Investments Australia Ltd	Buy	7.10	Ordinary	2,220	2,220
15-Aug-18	Vanguard Investments Australia Ltd	Buy	7.10	Ordinary	18,099	18,099
17-Aug-18	Vanguard Investments Australia Ltd	Sell	7.15	Ordinary	(2,889)	(2,889)
20-Aug-18	Vanguard Investments Australia Ltd	Sell	7.09	Ordinary	(10,972)	(10,972)
21-Aug-18	Vanguard Investments Australia Ltd	Buy	7.07	Ordinary	3,700	3,700
23-Aug-18	Vanguard Investments Australia Ltd	Buy	6.78	Ordinary	12,666	12,666
29-Aug-18	Vanguard Investments Australia Ltd	Buy	7.16	Ordinary	12,579	12,579
29-Aug-18	Vanguard Investments Australia Ltd	Buy	7.16	Ordinary	70,233	70,233
30-Aug-18	Vanguard Investments Australia Ltd	Buy	7.13	Ordinary	6,651	6,651
31-Aug-18	Vanguard Investments Australia Ltd	Buy	7.12	Ordinary	6,699	6,699
4-Sep-18	Vanguard Investments Australia Ltd	Buy	7.21	Ordinary	12,666	12,666
4-Sep-18	Vanguard Investments Australia Ltd	Buy	7.21	Ordinary	3,806	3,806
10-Sep-18	Vanguard Investments Australia Ltd	Buy	7.14	Ordinary	12,646	12,646
10-Sep-18	Vanguard Investments Australia Ltd	Buy	7.14	Ordinary	25,292	25,292
10-Sep-18	Vanguard Investments Australia Ltd	Buy	7.14	Ordinary	3,680	3,680
11-Sep-18	Vanguard Investments Australia Ltd	Sell	7.17	Ordinary	(4,795)	(4,795)
13-Sep-18	Vanguard Investments Australia Ltd	Buy	7.18	Ordinary	2,919	2,919
17-Sep-18	Vanguard Investments Australia Ltd	Buy	7.23	Ordinary	3,806	3,806
18-Sep-18	Vanguard Investments Australia Ltd	Buy	7.27	Ordinary	6,675	6,675
19-Sep-18	Vanguard Investments Australia Ltd	Buy	7.17	Ordinary	12,644	12,644
20-Sep-18	Vanguard Investments Australia Ltd	Sell	7.07	Ordinary	(2,869)	(2,869)
21-Sep-18	Vanguard Investments Australia Ltd	Buy	7.07	Ordinary	15,103	15,103
21-Sep-18	Vanguard Investments Australia Ltd	Sell	7.07	Ordinary	(15,403)	(15,403)
21-Sep-18	Vanguard Investments Australia Ltd	Buy	7.07	Ordinary	5,311	5,311
21-Sep-18	Vanguard Investments Australia Ltd	Buy	7.07	Ordinary	36,726	36,726
21-Sep-18	Vanguard Investments Australia Ltd	Buy	7.07	Ordinary	33,957	33,957

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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
26-Sep-18	Vanguard Investments Australia Ltd	Buy	7.21	Ordinary	12,662	12,662
26-Sep-18	Vanguard Investments Australia Ltd	Buy	7.21	Ordinary	1,950	1,950
27-Sep-18	Vanguard Investments Australia Ltd	Buy	7.20	Ordinary	16,780	16,780
27-Sep-18	Vanguard Investments Australia Ltd	Buy	7.20	Ordinary	17,442	17,442
27-Sep-18	Vanguard Investments Australia Ltd	Buy	7.20	Ordinary	20,984	20,984
27-Sep-18	Vanguard Investments Australia Ltd	Buy	7.21	Ordinary	25,025	25,025
28-Sep-18	Vanguard Investments Australia Ltd	Sell	7.16	Ordinary	(2,796)	(2,796)
28-Sep-18	Vanguard Investments Australia Ltd	Sell	7.17	Ordinary	(60,546)	(60,546)
28-Sep-18	Vanguard Investments Australia Ltd	Sell	7.16	Ordinary	(6,675)	(6,675)
1-Oct-18	Vanguard Investments Australia Ltd	Buy	7.11	Ordinary	3,078	3,078
3-Oct-18	Vanguard Investments Australia Ltd	Buy	7.08	Ordinary	25,244	25,244
3-Oct-18	Vanguard Investments Australia Ltd	Buy	7.05	Ordinary	2,831	2,831
4-Oct-18	Vanguard Investments Australia Ltd	Sell	7.05	Ordinary	(1,959)	(1,959)
4-Oct-18	Vanguard Investments Australia Ltd	Buy	7.05	Ordinary	12,622	12,622
4-Oct-18	Vanguard Investments Australia Ltd	Sell	7.05	Ordinary	(79,772)	(79,772)
5-Oct-18	Vanguard Investments Australia Ltd	Sell	6.99	Ordinary	(1,045)	(1,045)
8-Oct-18	Vanguard Investments Australia Ltd	Buy	6.99	Ordinary	6,684	6,684
8-Oct-18	Vanguard Investments Australia Ltd	Buy	6.99	Ordinary	3,078	3,078
10-Oct-18	Vanguard Investments Australia Ltd	Sell	6.95	Ordinary	(7,154)	(7,154)
10-Oct-18	Vanguard Investments Australia Ltd	Sell	6.95	Ordinary	(2,130)	(2,130)
11-Oct-18	Vanguard Investments Australia Ltd	Buy	6.88	Ordinary	4,104	4,104
12-Oct-18	Vanguard Investments Australia Ltd	Buy	6.84	Ordinary	118,126	118,126
15-Oct-18	Vanguard Investments Australia Ltd	Buy	6.74	Ordinary	18,864	18,864
17-Oct-18	Vanguard Investments Australia Ltd	Buy	6.87	Ordinary	7,157	7,157
18-Oct-18	Vanguard Investments Australia Ltd	Sell	6.96	Ordinary	(2,911)	(2,911)
18-Oct-18	Vanguard Investments Australia Ltd	Buy	6.96	Ordinary	3,061	3,061
23-Oct-18	Vanguard Investments Australia Ltd	Buy	7.06	Ordinary	6,687	6,687
23-Oct-18	Vanguard Investments Australia Ltd	Sell	7.06	Ordinary	(4,770)	(4,770)
24-Oct-18	Vanguard Investments Australia Ltd	Sell	7.04	Ordinary	(2,739)	(2,739)
24-Oct-18	Vanguard Investments Australia Ltd	Buy	7.04	Ordinary	5,052	5,052
25-Oct-18	Vanguard Investments Australia Ltd	Buy	6.92	Ordinary	22,182	22,182
25-Oct-18	Vanguard Investments Australia Ltd	Buy	6.92	Ordinary	12,576	12,576
25-Oct-18	Vanguard Investments Australia Ltd	Buy	6.92	Ordinary	4,458	4,458
25-Oct-18	Vanguard Investments Australia Ltd	Buy	6.92	Ordinary	6,188	6,188
31-Oct-18	Vanguard Investments Australia Ltd	Sell	6.90	Ordinary	(31,440)	(31,440)
31-Oct-18	Vanguard Investments Australia Ltd	Buy	6.90	Ordinary	7,056	7,056
31-Oct-18	Vanguard Investments Australia Ltd	Buy	6.90	Ordinary	1,323	1,323
1-Nov-18	Vanguard Investments Australia Ltd	Buy	6.79	Ordinary	840	840
2-Nov-18	Vanguard Investments Australia Ltd	Buy	6.78	Ordinary	12,576	12,576
2-Nov-18	Vanguard Investments Australia Ltd	Buy	6.78	Ordinary	18,864	18,864
2-Nov-18	Vanguard Investments Australia Ltd	Buy	6.78	Ordinary	5,460	5,460
9-Nov-18	Vanguard Investments Australia Ltd	Buy	7.09	Ordinary	12,556	12,556
12-Nov-18	Vanguard Investments Australia Ltd	Sell	7.12	Ordinary	(6,811)	(6,811)
12-Nov-18	Vanguard Investments Australia Ltd	Buy	7.12	Ordinary	5,759	5,759
13-Nov-18	Vanguard Investments Australia Ltd	Buy	7.06	Ordinary	6,690	6,690
14-Nov-18	Vanguard Investments Australia Ltd	Sell	6.94	Ordinary	(81,942)	(81,942)
15-Nov-18	Vanguard Investments Australia Ltd	Sell	6.83	Ordinary	(15,721)	(15,721)
19-Nov-18	Vanguard Investments Australia Ltd	Sell	6.81	Ordinary	(6,452)	(6,452)
20-Nov-18	Vanguard Investments Australia Ltd	Sell	6.80	Ordinary	(20,773)	(20,773)
22-Nov-18	Vanguard Investments Australia Ltd	Buy	7.00	Ordinary	6,244	6,244
23-Nov-18	Vanguard Investments Australia Ltd	Sell	6.96	Ordinary	(17,032)	(17,032)
26-Nov-18	Vanguard Investments Australia Ltd	Sell	7.02	Ordinary	(4,171)	(4,171)
27-Nov-18	Vanguard Investments Australia Ltd	Buy	7.03	Ordinary	6,702	6,702
29-Nov-18	Vanguard Investments Australia Ltd	Sell	7.11	Ordinary	(34,126)	(34,126)
29-Nov-18	Vanguard Investments Australia Ltd	Buy	7.11	Ordinary	4,675	4,675
30-Nov-18	Vanguard Investments Australia Ltd	Buy	6.99	Ordinary	12,514	12,514
30-Nov-18	Vanguard Investments Australia Ltd	Sell	6.99	Ordinary	(5,868)	(5,868)
3-Dec-18	Vanguard Investments Australia Ltd	Sell	7.09	Ordinary	(4,063)	(4,063)
3-Dec-18	Vanguard Investments Australia Ltd	Buy	7.09	Ordinary	5,525	5,525
4-Dec-18	Vanguard Investments Australia Ltd	Buy	7.00	Ordinary	29,801	29,801
5-Dec-18	Vanguard Investments Australia Ltd	Sell	6.94	Ordinary	(143,800)	(143,800)
5-Dec-18	Vanguard Investments Australia Ltd	Sell	6.96	Ordinary	(249,292)	(249,292)
6-Dec-18	Vanguard Investments Australia Ltd	Buy	7.20	Ordinary	18,505	18,505
6-Dec-18	Vanguard Investments Australia Ltd	Buy	7.20	Ordinary	335,716	335,716
6-Dec-18	Vanguard Investments Australia Ltd	Buy	7.25	Ordinary	12,794	12,794
7-Dec-18	Vanguard Investments Australia Ltd	Buy	7.35	Ordinary	47,885	47,885
11-Dec-18	Vanguard Investments Australia Ltd	Buy	7.46	Ordinary	4,992	4,992

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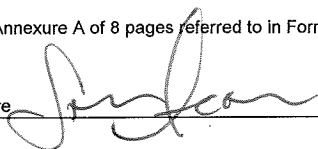
Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
11-Dec-18	Vanguard Investments Australia Ltd	Buy	7.46	Ordinary	8,320	8,320
12-Dec-18	Vanguard Investments Australia Ltd	Buy	7.59	Ordinary	329,262	329,262
12-Dec-18	Vanguard Investments Australia Ltd	Sell	7.59	Ordinary	(5,214)	(5,214)
14-Dec-18	Vanguard Investments Australia Ltd	Buy	7.53	Ordinary	6,823	6,823
14-Dec-18	Vanguard Investments Australia Ltd	Sell	7.53	Ordinary	(2,496)	(2,496)
18-Dec-18	Vanguard Investments Australia Ltd	Buy	7.51	Ordinary	19,200	19,200
20-Dec-18	Vanguard Investments Australia Ltd	Buy	7.63	Ordinary	12,800	12,800
20-Dec-18	Vanguard Investments Australia Ltd	Buy	7.68	Ordinary	162,021	162,021
21-Dec-18	Vanguard Investments Australia Ltd	Buy	7.56	Ordinary	11,564	11,564
21-Dec-18	Vanguard Investments Australia Ltd	Buy	7.56	Ordinary	25,021	25,021
21-Dec-18	Vanguard Investments Australia Ltd	Buy	7.57	Ordinary	18,020	18,020
21-Dec-18	Vanguard Investments Australia Ltd	Buy	7.56	Ordinary	36,352	36,352
21-Dec-18	Vanguard Investments Australia Ltd	Buy	7.60	Ordinary	354,349	354,349
21-Dec-18	Vanguard Investments Australia Ltd	Buy	7.56	Ordinary	48,354	48,354
27-Dec-18	Vanguard Investments Australia Ltd	Buy	7.61	Ordinary	2,766	2,766
31-Dec-18	Vanguard Investments Australia Ltd	Sell	7.43	Ordinary	(57,285)	(57,285)
31-Dec-18	Vanguard Investments Australia Ltd	Sell	7.43	Ordinary	(6,819)	(6,819)
4-Jan-19	Vanguard Investments Australia Ltd	Sell	7.34	Ordinary	(4,422)	(4,422)
8-Jan-19	Vanguard Investments Australia Ltd	Buy	7.32	Ordinary	4,540	4,540
9-Jan-19	Vanguard Investments Australia Ltd	Buy	7.39	Ordinary	13,146	13,146
11-Jan-19	Vanguard Investments Australia Ltd	Buy	7.50	Ordinary	5,544	5,544
14-Jan-19	Vanguard Investments Australia Ltd	Buy	7.50	Ordinary	6,552	6,552
21-Jan-19	Vanguard Investments Australia Ltd	Sell	7.59	Ordinary	(6,754)	(6,754)
22-Jan-19	Vanguard Investments Australia Ltd	Buy	7.66	Ordinary	19,716	19,716
22-Jan-19	Vanguard Investments Australia Ltd	Sell	7.66	Ordinary	(635)	(635)
23-Jan-19	Vanguard Investments Australia Ltd	Sell	7.80	Ordinary	(4,424)	(4,424)
23-Jan-19	Vanguard Investments Australia Ltd	Buy	7.80	Ordinary	6,572	6,572
29-Jan-19	Vanguard Investments Australia Ltd	Sell	8.12	Ordinary	(17,759)	(17,759)
29-Jan-19	Vanguard Investments Australia Ltd	Buy	8.12	Ordinary	16,512	16,512
30-Jan-19	Vanguard Investments Australia Ltd	Buy	8.19	Ordinary	1,820	1,820
4-Feb-19	Vanguard Investments Australia Ltd	Buy	8.35	Ordinary	30,744	30,744
4-Feb-19	Vanguard Investments Australia Ltd	Buy	8.35	Ordinary	13,144	13,144
5-Feb-19	Vanguard Investments Australia Ltd	Sell	8.35	Ordinary	(33,110)	(33,110)
7-Feb-19	Vanguard Investments Australia Ltd	Sell	8.59	Ordinary	(9,197)	(9,197)
7-Feb-19	Vanguard Investments Australia Ltd	Buy	8.59	Ordinary	8,736	8,736
12-Feb-19	Vanguard Investments Australia Ltd	Buy	8.50	Ordinary	4,378	4,378
13-Feb-19	Vanguard Investments Australia Ltd	Buy	8.45	Ordinary	21,263	21,263
14-Feb-19	Vanguard Investments Australia Ltd	Buy	8.48	Ordinary	19,809	19,809
18-Feb-19	Vanguard Investments Australia Ltd	Sell	8.67	Ordinary	(3,472)	(3,472)
19-Feb-19	Vanguard Investments Australia Ltd	Buy	8.81	Ordinary	5,203	5,203
21-Feb-19	Vanguard Investments Australia Ltd	Sell	8.76	Ordinary	(2,799)	(2,799)
25-Feb-19	Vanguard Investments Australia Ltd	Buy	8.90	Ordinary	15,152	15,152
26-Feb-19	Vanguard Investments Australia Ltd	Buy	8.71	Ordinary	6,603	6,603
26-Feb-19	Vanguard Investments Australia Ltd	Buy	8.71	Ordinary	6,606	6,606
26-Feb-19	Vanguard Investments Australia Ltd	Buy	8.71	Ordinary	4,730	4,730
27-Feb-19	Vanguard Investments Australia Ltd	Buy	8.73	Ordinary	4,249	4,249
27-Feb-19	Vanguard Investments Australia Ltd	Buy	8.73	Ordinary	36,419	36,419
28-Feb-19	Vanguard Investments Australia Ltd	Buy	8.77	Ordinary	4,615	4,615
28-Feb-19	Vanguard Investments Australia Ltd	Buy	8.80	Ordinary	19,875	19,875
28-Feb-19	Vanguard Investments Australia Ltd	Buy	8.77	Ordinary	39,558	39,558
1-Mar-19	Vanguard Investments Australia Ltd	Buy	8.94	Ordinary	9,225	9,225
1-Mar-19	Vanguard Investments Australia Ltd	Buy	8.94	Ordinary	63,965	63,965
5-Mar-19	Vanguard Investments Australia Ltd	Buy	9.18	Ordinary	30,272	30,272
7-Mar-19	Vanguard Investments Australia Ltd	Sell	9.32	Ordinary	(3,817)	(3,817)
12-Mar-19	Vanguard Investments Australia Ltd	Sell	9.30	Ordinary	(16,436)	(16,436)
15-Mar-19	Vanguard Investments Australia Ltd	Buy	9.58	Ordinary	162	162
15-Mar-19	Vanguard Investments Australia Ltd	Buy	9.58	Ordinary	12,266	12,266
15-Mar-19	Vanguard Investments Australia Ltd	Sell	9.58	Ordinary	(3,530)	(3,530)
15-Mar-19	Vanguard Investments Australia Ltd	Buy	9.58	Ordinary	6,625	6,625
15-Mar-19	Vanguard Investments Australia Ltd	Buy	9.58	Ordinary	2,232	2,232
15-Mar-19	Vanguard Investments Australia Ltd	Buy	9.58	Ordinary	168,885	168,885
19-Mar-19	Vanguard Investments Australia Ltd	Buy	9.60	Ordinary	19,908	19,908
21-Mar-19	Vanguard Investments Australia Ltd	Buy	9.83	Ordinary	22,559	22,559
26-Mar-19	Vanguard Investments Australia Ltd	Sell	9.94	Ordinary	(5,820)	(5,820)
29-Mar-19	Vanguard Investments Australia Ltd	Sell	10.27	Ordinary	(114,100)	(114,100)
1-Apr-19	Vanguard Investments Australia Ltd	Buy	10.14	Ordinary	1,553	1,553
1-Apr-19	Vanguard Investments Australia Ltd	Buy	10.14	Ordinary	3,569	3,569

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
1-Apr-19	Vanguard Investments Australia Ltd	Sell	10.14	Ordinary	(17,075)	(17,075)
1-Apr-19	Vanguard Investments Australia Ltd	Buy	10.14	Ordinary	13,776	13,776
2-Apr-19	Vanguard Investments Australia Ltd	Buy	10.07	Ordinary	17,273	17,273
2-Apr-19	Vanguard Investments Australia Ltd	Buy	10.07	Ordinary	24,573	24,573
2-Apr-19	Vanguard Investments Australia Ltd	Buy	10.07	Ordinary	3,248	3,248
4-Apr-19	Vanguard Investments Australia Ltd	Sell	9.85	Ordinary	(3,598)	(3,598)
4-Apr-19	Vanguard Investments Australia Ltd	Buy	9.85	Ordinary	6,608	6,608
5-Apr-19	Vanguard Investments Australia Ltd	Buy	9.87	Ordinary	19,824	19,824
8-Apr-19	Vanguard Investments Australia Ltd	Buy	10.00	Ordinary	6,608	6,608
8-Apr-19	Vanguard Investments Australia Ltd	Buy	10.00	Ordinary	3,712	3,712
9-Apr-19	Vanguard Investments Australia Ltd	Buy	9.97	Ordinary	155,123	155,123
10-Apr-19	Vanguard Investments Australia Ltd	Buy	10.04	Ordinary	6,601	6,601
15-Apr-19	Vanguard Investments Australia Ltd	Sell	10.13	Ordinary	(4,000)	(4,000)
15-Apr-19	Vanguard Investments Australia Ltd	Buy	10.13	Ordinary	13,200	13,200

This is Annexure A of 8 pages referred to in Form 604, Notice of change of interests of substantial holder.

Signature



Date

18-Apr-19