

Form 604
Corporations Act 2001
Section 671B

Notice of change of interests of substantial holder

To Company Name/Scheme Boral Limited
ACN/ARSN 008 421 761

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 13 March 2020

The previous notice was given to the company on 03 August 2018

The previous notice was dated 03 August 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)
Total	58,648,100	5.003%	70,609,200	6.023%

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	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 – 3,032,758	3,032,758
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 – 3,438,995	3,438,995
Vanguard Group	Citibank	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 – 21,523	21,523
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 – 36,618,113	36,618,113
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 – 8,758,213	8,758,213
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 – 18,739,598	18,739,598

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 18 March 2020

To Company	Boral Limited
ACN/ARSN	008 421 761
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
2-Aug-18	The Vanguard Group, Inc.	Sell	6.68	Ordinary	(7,330)	(7,330)
3-Aug-18	The Vanguard Group, Inc.	Sell	6.63	Ordinary	(5,022)	(5,022)
3-Aug-18	The Vanguard Group, Inc.	Buy	6.63	Ordinary	956	956
6-Aug-18	The Vanguard Group, Inc.	Buy	6.63	Ordinary	792	792
8-Aug-18	The Vanguard Group, Inc.	Sell	6.55	Ordinary	(815)	(815)
10-Aug-18	The Vanguard Group, Inc.	Sell	6.46	Ordinary	(17,592)	(17,592)
10-Aug-18	The Vanguard Group, Inc.	Sell	6.47	Ordinary	(21,695)	(21,695)
14-Aug-18	The Vanguard Group, Inc.	Buy	6.47	Ordinary	107,250	107,250
14-Aug-18	The Vanguard Group, Inc.	Sell	6.49	Ordinary	(4,877)	(4,877)
15-Aug-18	The Vanguard Group, Inc.	Sell	6.51	Ordinary	(8,796)	(8,796)
16-Aug-18	The Vanguard Group, Inc.	Buy	6.49	Ordinary	105,352	105,352
16-Aug-18	The Vanguard Group, Inc.	Buy	6.55	Ordinary	2,553	2,553
16-Aug-18	The Vanguard Group, Inc.	Sell	6.54	Ordinary	(26,247)	(26,247)
17-Aug-18	The Vanguard Group, Inc.	Buy	6.61	Ordinary	5,761	5,761
17-Aug-18	The Vanguard Group, Inc.	Buy	6.51	Ordinary	19,974	19,974
21-Aug-18	The Vanguard Group, Inc.	Buy	6.58	Ordinary	887	887
24-Aug-18	The Vanguard Group, Inc.	Buy	6.51	Ordinary	9,053	9,053
5-Sep-18	The Vanguard Group, Inc.	Sell	6.98	Ordinary	(1,061)	(1,061)
6-Sep-18	The Vanguard Group, Inc.	Buy	6.98	Ordinary	106,111	106,111
7-Sep-18	The Vanguard Group, Inc.	Buy	6.94	Ordinary	16,077	16,077
7-Sep-18	The Vanguard Group, Inc.	Buy	6.94	Ordinary	6,116	6,116
7-Sep-18	The Vanguard Group, Inc.	Sell	6.95	Ordinary	(22,846)	(22,846)
10-Sep-18	The Vanguard Group, Inc.	Buy	6.93	Ordinary	2,216	2,216
12-Sep-18	The Vanguard Group, Inc.	Buy	6.96	Ordinary	9,174	9,174
12-Sep-18	The Vanguard Group, Inc.	Sell	6.85	Ordinary	(809)	(809)
12-Sep-18	The Vanguard Group, Inc.	Sell	6.96	Ordinary	(76,264)	(76,264)
14-Sep-18	The Vanguard Group, Inc.	Buy	6.95	Ordinary	9,671	9,671
17-Sep-18	The Vanguard Group, Inc.	Buy	6.91	Ordinary	9,661	9,661
18-Sep-18	The Vanguard Group, Inc.	Buy	6.84	Ordinary	1,134	1,134
18-Sep-18	The Vanguard Group, Inc.	Sell	6.86	Ordinary	(2,019)	(2,019)
19-Sep-18	The Vanguard Group, Inc.	Buy	6.88	Ordinary	170,935	170,935
20-Sep-18	The Vanguard Group, Inc.	Buy	6.80	Ordinary	1,774	1,774
21-Sep-18	The Vanguard Group, Inc.	Sell	6.86	Ordinary	(32,043)	(32,043)
21-Sep-18	The Vanguard Group, Inc.	Sell	6.86	Ordinary	(1,769)	(1,769)
26-Sep-18	The Vanguard Group, Inc.	Buy	6.93	Ordinary	5,756	5,756
26-Sep-18	The Vanguard Group, Inc.	Buy	6.93	Ordinary	11,512	11,512
26-Sep-18	The Vanguard Group, Inc.	Buy	6.93	Ordinary	14,390	14,390
28-Sep-18	The Vanguard Group, Inc.	Buy	6.91	Ordinary	1,203	1,203
1-Oct-18	The Vanguard Group, Inc.	Buy	6.99	Ordinary	8,634	8,634
2-Oct-18	The Vanguard Group, Inc.	Buy	7.00	Ordinary	23,024	23,024
2-Oct-18	The Vanguard Group, Inc.	Sell	6.97	Ordinary	(20,950)	(20,950)
2-Oct-18	The Vanguard Group, Inc.	Sell	7.00	Ordinary	(4,005)	(4,005)
3-Oct-18	The Vanguard Group, Inc.	Buy	7.01	Ordinary	8,634	8,634
3-Oct-18	The Vanguard Group, Inc.	Buy	7.01	Ordinary	7,068	7,068
9-Oct-18	The Vanguard Group, Inc.	Buy	6.70	Ordinary	20,026	20,026
11-Oct-18	The Vanguard Group, Inc.	Buy	6.34	Ordinary	7,068	7,068
12-Oct-18	The Vanguard Group, Inc.	Buy	6.37	Ordinary	115,167	115,167
15-Oct-18	The Vanguard Group, Inc.	Buy	6.35	Ordinary	11,780	11,780
16-Oct-18	The Vanguard Group, Inc.	Sell	6.37	Ordinary	(879)	(879)
16-Oct-18	The Vanguard Group, Inc.	Buy	6.50	Ordinary	299	299
18-Oct-18	The Vanguard Group, Inc.	Sell	6.21	Ordinary	(686)	(686)
19-Oct-18	The Vanguard Group, Inc.	Buy	6.07	Ordinary	7,068	7,068
19-Oct-18	The Vanguard Group, Inc.	Buy	6.07	Ordinary	8,634	8,634
23-Oct-18	The Vanguard Group, Inc.	Buy	5.82	Ordinary	7,322	7,322
25-Oct-18	The Vanguard Group, Inc.	Buy	5.65	Ordinary	152,194	152,194
25-Oct-18	The Vanguard Group, Inc.	Buy	5.70	Ordinary	7,195	7,195
26-Oct-18	The Vanguard Group, Inc.	Buy	5.70	Ordinary	1,681	1,681
26-Oct-18	The Vanguard Group, Inc.	Buy	5.58	Ordinary	2,091	2,091

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
30-Oct-18	The Vanguard Group, Inc.	Buy	5.52	Ordinary	21,700	21,700
31-Oct-18	The Vanguard Group, Inc.	Buy	5.63	Ordinary	10,073	10,073
1-Nov-18	The Vanguard Group, Inc.	Buy	5.66	Ordinary	161,158	161,158
1-Nov-18	The Vanguard Group, Inc.	Buy	5.72	Ordinary	14,390	14,390
1-Nov-18	The Vanguard Group, Inc.	Sell	5.67	Ordinary	(76,818)	(76,818)
2-Nov-18	The Vanguard Group, Inc.	Buy	5.66	Ordinary	58,688	58,688
2-Nov-18	The Vanguard Group, Inc.	Buy	5.66	Ordinary	23,268	23,268
2-Nov-18	The Vanguard Group, Inc.	Sell	5.61	Ordinary	(26,359)	(26,359)
5-Nov-18	The Vanguard Group, Inc.	Sell	5.50	Ordinary	(8,815)	(8,815)
7-Nov-18	The Vanguard Group, Inc.	Buy	5.65	Ordinary	11,512	11,512
7-Nov-18	The Vanguard Group, Inc.	Buy	5.57	Ordinary	15,999	15,999
9-Nov-18	The Vanguard Group, Inc.	Sell	5.55	Ordinary	(2,268)	(2,268)
12-Nov-18	The Vanguard Group, Inc.	Buy	5.43	Ordinary	8,634	8,634
13-Nov-18	The Vanguard Group, Inc.	Buy	5.42	Ordinary	2,262	2,262
13-Nov-18	The Vanguard Group, Inc.	Buy	5.39	Ordinary	6,214	6,214
14-Nov-18	The Vanguard Group, Inc.	Buy	5.29	Ordinary	11,512	11,512
14-Nov-18	The Vanguard Group, Inc.	Buy	5.29	Ordinary	8,634	8,634
15-Nov-18	The Vanguard Group, Inc.	Buy	5.44	Ordinary	9,872	9,872
15-Nov-18	The Vanguard Group, Inc.	Buy	5.44	Ordinary	1,602	1,602
15-Nov-18	The Vanguard Group, Inc.	Buy	5.33	Ordinary	46,625	46,625
21-Nov-18	The Vanguard Group, Inc.	Buy	5.03	Ordinary	11,512	11,512
28-Nov-18	The Vanguard Group, Inc.	Buy	5.24	Ordinary	5,346	5,346
28-Nov-18	The Vanguard Group, Inc.	Buy	5.24	Ordinary	891	891
28-Nov-18	The Vanguard Group, Inc.	Buy	5.24	Ordinary	7,195	7,195
28-Nov-18	The Vanguard Group, Inc.	Buy	5.24	Ordinary	8,246	8,246
30-Nov-18	The Vanguard Group, Inc.	Buy	5.13	Ordinary	587	587
30-Nov-18	The Vanguard Group, Inc.	Sell	5.10	Ordinary	(33,559)	(33,559)
30-Nov-18	The Vanguard Group, Inc.	Sell	5.10	Ordinary	(33,901)	(33,901)
3-Dec-18	The Vanguard Group, Inc.	Buy	5.25	Ordinary	1,174	1,174
4-Dec-18	The Vanguard Group, Inc.	Buy	5.04	Ordinary	9,872	9,872
4-Dec-18	The Vanguard Group, Inc.	Buy	5.04	Ordinary	11,512	11,512
4-Dec-18	The Vanguard Group, Inc.	Buy	5.17	Ordinary	11,847	11,847
5-Dec-18	The Vanguard Group, Inc.	Buy	5.06	Ordinary	6,435	6,435
6-Dec-18	The Vanguard Group, Inc.	Buy	5.10	Ordinary	7,404	7,404
6-Dec-18	The Vanguard Group, Inc.	Buy	5.06	Ordinary	7,320	7,320
6-Dec-18	The Vanguard Group, Inc.	Sell	5.06	Ordinary	(1,646)	(1,646)
7-Dec-18	The Vanguard Group, Inc.	Buy	4.93	Ordinary	11,512	11,512
7-Dec-18	The Vanguard Group, Inc.	Buy	4.93	Ordinary	10,073	10,073
10-Dec-18	The Vanguard Group, Inc.	Buy	4.89	Ordinary	6,848	6,848
11-Dec-18	The Vanguard Group, Inc.	Buy	4.83	Ordinary	11,512	11,512
11-Dec-18	The Vanguard Group, Inc.	Buy	4.83	Ordinary	8,634	8,634
12-Dec-18	The Vanguard Group, Inc.	Buy	5.00	Ordinary	298,498	298,498
12-Dec-18	The Vanguard Group, Inc.	Buy	4.98	Ordinary	8,634	8,634
12-Dec-18	The Vanguard Group, Inc.	Buy	4.98	Ordinary	8,634	8,634
12-Dec-18	The Vanguard Group, Inc.	Buy	4.98	Ordinary	24,463	24,463
12-Dec-18	The Vanguard Group, Inc.	Buy	4.98	Ordinary	4,712	4,712
13-Dec-18	The Vanguard Group, Inc.	Buy	4.99	Ordinary	8,246	8,246
13-Dec-18	The Vanguard Group, Inc.	Buy	4.99	Ordinary	1,602	1,602
14-Dec-18	The Vanguard Group, Inc.	Buy	4.94	Ordinary	8,634	8,634
14-Dec-18	The Vanguard Group, Inc.	Buy	4.94	Ordinary	3,534	3,534
17-Dec-18	The Vanguard Group, Inc.	Buy	4.91	Ordinary	17,268	17,268
17-Dec-18	The Vanguard Group, Inc.	Buy	4.91	Ordinary	11,780	11,780
18-Dec-18	The Vanguard Group, Inc.	Buy	4.95	Ordinary	1,915	1,915
20-Dec-18	The Vanguard Group, Inc.	Buy	4.77	Ordinary	11,512	11,512
20-Dec-18	The Vanguard Group, Inc.	Sell	4.81	Ordinary	(28,093)	(28,093)
20-Dec-18	The Vanguard Group, Inc.	Sell	4.81	Ordinary	(44,419)	(44,419)
20-Dec-18	The Vanguard Group, Inc.	Buy	4.81	Ordinary	8,475	8,475
21-Dec-18	The Vanguard Group, Inc.	Sell	4.78	Ordinary	(1,122)	(1,122)
24-Dec-18	The Vanguard Group, Inc.	Buy	4.72	Ordinary	16,200	16,200
24-Dec-18	The Vanguard Group, Inc.	Buy	4.72	Ordinary	25,920	25,920
24-Dec-18	The Vanguard Group, Inc.	Buy	4.76	Ordinary	15,665	15,665
26-Dec-18	The Vanguard Group, Inc.	Buy	4.89	Ordinary	9,720	9,720
27-Dec-18	The Vanguard Group, Inc.	Buy	4.92	Ordinary	24,300	24,300
27-Dec-18	The Vanguard Group, Inc.	Buy	4.92	Ordinary	8,100	8,100
27-Dec-18	The Vanguard Group, Inc.	Buy	4.92	Ordinary	4,860	4,860

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-Dec-18	The Vanguard Group, Inc.	Buy	4.92	Ordinary	1,174	1,174
28-Dec-18	The Vanguard Group, Inc.	Buy	4.85	Ordinary	783	783
2-Jan-19	The Vanguard Group, Inc.	Buy	4.93	Ordinary	1,478	1,478
2-Jan-19	The Vanguard Group, Inc.	Buy	4.90	Ordinary	9,720	9,720
2-Jan-19	The Vanguard Group, Inc.	Buy	4.90	Ordinary	11,340	11,340
2-Jan-19	The Vanguard Group, Inc.	Buy	4.90	Ordinary	1,778	1,778
2-Jan-19	The Vanguard Group, Inc.	Buy	4.85	Ordinary	7,557	7,557
3-Jan-19	The Vanguard Group, Inc.	Buy	4.86	Ordinary	8,100	8,100
3-Jan-19	The Vanguard Group, Inc.	Buy	4.86	Ordinary	1,778	1,778
7-Jan-19	The Vanguard Group, Inc.	Buy	4.95	Ordinary	3,240	3,240
8-Jan-19	The Vanguard Group, Inc.	Buy	5.09	Ordinary	2,935	2,935
8-Jan-19	The Vanguard Group, Inc.	Sell	5.05	Ordinary	(28,559)	(28,559)
8-Jan-19	The Vanguard Group, Inc.	Buy	5.08	Ordinary	5,194	5,194
10-Jan-19	The Vanguard Group, Inc.	Buy	5.12	Ordinary	3,556	3,556
10-Jan-19	The Vanguard Group, Inc.	Sell	5.10	Ordinary	(27,560)	(27,560)
10-Jan-19	The Vanguard Group, Inc.	Buy	5.09	Ordinary	6,904	6,904
11-Jan-19	The Vanguard Group, Inc.	Buy	5.05	Ordinary	1,174	1,174
11-Jan-19	The Vanguard Group, Inc.	Buy	5.03	Ordinary	5,869	5,869
17-Jan-19	The Vanguard Group, Inc.	Sell	5.19	Ordinary	(9,570)	(9,570)
17-Jan-19	The Vanguard Group, Inc.	Buy	5.14	Ordinary	2,322	2,322
17-Jan-19	The Vanguard Group, Inc.	Sell	5.14	Ordinary	(10,065)	(10,065)
18-Jan-19	The Vanguard Group, Inc.	Sell	5.20	Ordinary	(1,090)	(1,090)
22-Jan-19	The Vanguard Group, Inc.	Sell	5.06	Ordinary	(9,570)	(9,570)
22-Jan-19	The Vanguard Group, Inc.	Buy	5.09	Ordinary	432	432
23-Jan-19	The Vanguard Group, Inc.	Sell	4.94	Ordinary	(20,735)	(20,735)
24-Jan-19	The Vanguard Group, Inc.	Sell	4.94	Ordinary	(20,735)	(20,735)
24-Jan-19	The Vanguard Group, Inc.	Buy	4.93	Ordinary	14,236	14,236
25-Jan-19	The Vanguard Group, Inc.	Buy	4.89	Ordinary	1,588	1,588
28-Jan-19	The Vanguard Group, Inc.	Sell	4.87	Ordinary	(9,720)	(9,720)
29-Jan-19	The Vanguard Group, Inc.	Sell	4.88	Ordinary	(30,305)	(30,305)
29-Jan-19	The Vanguard Group, Inc.	Sell	4.88	Ordinary	(12,760)	(12,760)
29-Jan-19	The Vanguard Group, Inc.	Sell	4.88	Ordinary	(12,760)	(12,760)
29-Jan-19	The Vanguard Group, Inc.	Sell	4.88	Ordinary	(6,480)	(6,480)
30-Jan-19	The Vanguard Group, Inc.	Sell	4.94	Ordinary	(9,720)	(9,720)
30-Jan-19	The Vanguard Group, Inc.	Buy	4.90	Ordinary	32,352	32,352
31-Jan-19	The Vanguard Group, Inc.	Sell	4.98	Ordinary	(27,540)	(27,540)
31-Jan-19	The Vanguard Group, Inc.	Buy	4.95	Ordinary	686	686
5-Feb-19	The Vanguard Group, Inc.	Buy	4.58	Ordinary	7,461	7,461
7-Feb-19	The Vanguard Group, Inc.	Sell	4.74	Ordinary	(9,896)	(9,896)
7-Feb-19	The Vanguard Group, Inc.	Sell	4.74	Ordinary	(6,480)	(6,480)
7-Feb-19	The Vanguard Group, Inc.	Sell	4.74	Ordinary	(6,480)	(6,480)
8-Feb-19	The Vanguard Group, Inc.	Buy	4.79	Ordinary	79,198	79,198
8-Feb-19	The Vanguard Group, Inc.	Sell	4.81	Ordinary	(21,060)	(21,060)
8-Feb-19	The Vanguard Group, Inc.	Buy	4.80	Ordinary	14,790	14,790
11-Feb-19	The Vanguard Group, Inc.	Sell	4.84	Ordinary	(14,580)	(14,580)
11-Feb-19	The Vanguard Group, Inc.	Buy	4.83	Ordinary	23,393	23,393
12-Feb-19	The Vanguard Group, Inc.	Sell	4.86	Ordinary	(60,952)	(60,952)
13-Feb-19	The Vanguard Group, Inc.	Sell	4.86	Ordinary	(9,720)	(9,720)
15-Feb-19	The Vanguard Group, Inc.	Sell	4.86	Ordinary	(713)	(713)
18-Feb-19	The Vanguard Group, Inc.	Buy	4.87	Ordinary	7,235	7,235
20-Feb-19	The Vanguard Group, Inc.	Buy	4.80	Ordinary	16,974	16,974
21-Feb-19	The Vanguard Group, Inc.	Sell	4.77	Ordinary	(8,100)	(8,100)
26-Feb-19	The Vanguard Group, Inc.	Buy	4.85	Ordinary	7,975	7,975
27-Feb-19	The Vanguard Group, Inc.	Buy	4.95	Ordinary	1,778	1,778
27-Feb-19	The Vanguard Group, Inc.	Buy	4.98	Ordinary	686	686
28-Feb-19	The Vanguard Group, Inc.	Sell	4.93	Ordinary	(28,737)	(28,737)
28-Feb-19	The Vanguard Group, Inc.	Sell	4.98	Ordinary	(29,464)	(29,464)
1-Mar-19	The Vanguard Group, Inc.	Buy	4.89	Ordinary	7,463	7,463
1-Mar-19	The Vanguard Group, Inc.	Sell	4.89	Ordinary	(28,114)	(28,114)
1-Mar-19	The Vanguard Group, Inc.	Sell	4.89	Ordinary	(7,069)	(7,069)
1-Mar-19	The Vanguard Group, Inc.	Buy	4.89	Ordinary	1,080	1,080
4-Mar-19	The Vanguard Group, Inc.	Sell	4.94	Ordinary	(28,744)	(28,744)
5-Mar-19	The Vanguard Group, Inc.	Buy	4.91	Ordinary	9,570	9,570
6-Mar-19	The Vanguard Group, Inc.	Buy	4.92	Ordinary	1,588	1,588
6-Mar-19	The Vanguard Group, Inc.	Buy	4.97	Ordinary	35,308	35,308

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
8-Mar-19	The Vanguard Group, Inc.	Buy	4.93	Ordinary	7,975	7,975
8-Mar-19	The Vanguard Group, Inc.	Buy	4.96	Ordinary	17,497	17,497
11-Mar-19	The Vanguard Group, Inc.	Buy	4.92	Ordinary	686	686
12-Mar-19	The Vanguard Group, Inc.	Sell	4.97	Ordinary	(10,022)	(10,022)
15-Mar-19	The Vanguard Group, Inc.	Buy	4.88	Ordinary	15,215	15,215
15-Mar-19	The Vanguard Group, Inc.	Buy	4.88	Ordinary	323	323
15-Mar-19	The Vanguard Group, Inc.	Buy	4.88	Ordinary	28,205	28,205
15-Mar-19	The Vanguard Group, Inc.	Buy	4.88	Ordinary	600	600
15-Mar-19	The Vanguard Group, Inc.	Sell	4.88	Ordinary	(1,747)	(1,747)
15-Mar-19	The Vanguard Group, Inc.	Sell	4.88	Ordinary	(2,566)	(2,566)
19-Mar-19	The Vanguard Group, Inc.	Buy	4.89	Ordinary	8,271	8,271
19-Mar-19	The Vanguard Group, Inc.	Buy	4.89	Ordinary	325	325
20-Mar-19	The Vanguard Group, Inc.	Buy	4.71	Ordinary	4,785	4,785
22-Mar-19	The Vanguard Group, Inc.	Buy	4.60	Ordinary	266,936	266,936
27-Mar-19	The Vanguard Group, Inc.	Sell	4.52	Ordinary	(1,234)	(1,234)
27-Mar-19	The Vanguard Group, Inc.	Buy	4.44	Ordinary	1,996	1,996
29-Mar-19	The Vanguard Group, Inc.	Buy	4.59	Ordinary	686	686
29-Mar-19	The Vanguard Group, Inc.	Sell	4.59	Ordinary	(19,293)	(19,293)
1-Apr-19	The Vanguard Group, Inc.	Buy	4.64	Ordinary	6,380	6,380
1-Apr-19	The Vanguard Group, Inc.	Buy	4.64	Ordinary	1,996	1,996
4-Apr-19	The Vanguard Group, Inc.	Buy	4.68	Ordinary	2,268	2,268
4-Apr-19	The Vanguard Group, Inc.	Sell	4.68	Ordinary	(8,954)	(8,954)
5-Apr-19	The Vanguard Group, Inc.	Buy	4.69	Ordinary	1,996	1,996
8-Apr-19	The Vanguard Group, Inc.	Buy	4.71	Ordinary	1,996	1,996
9-Apr-19	The Vanguard Group, Inc.	Sell	4.77	Ordinary	(7,534)	(7,534)
10-Apr-19	The Vanguard Group, Inc.	Buy	4.73	Ordinary	16,833	16,833
10-Apr-19	The Vanguard Group, Inc.	Buy	4.73	Ordinary	28,735	28,735
10-Apr-19	The Vanguard Group, Inc.	Buy	4.75	Ordinary	4,747	4,747
12-Apr-19	The Vanguard Group, Inc.	Buy	4.72	Ordinary	81,800	81,800
16-Apr-19	The Vanguard Group, Inc.	Buy	4.77	Ordinary	251,873	251,873
16-Apr-19	The Vanguard Group, Inc.	Buy	4.77	Ordinary	1,640	1,640
16-Apr-19	The Vanguard Group, Inc.	Buy	4.77	Ordinary	12,950	12,950
16-Apr-19	The Vanguard Group, Inc.	Buy	4.78	Ordinary	686	686
18-Apr-19	The Vanguard Group, Inc.	Buy	4.87	Ordinary	14,858	14,858
23-Apr-19	The Vanguard Group, Inc.	Sell	4.89	Ordinary	(6,077)	(6,077)
24-Apr-19	The Vanguard Group, Inc.	Buy	4.90	Ordinary	2,685	2,685
26-Apr-19	The Vanguard Group, Inc.	Buy	4.90	Ordinary	7,975	7,975
26-Apr-19	The Vanguard Group, Inc.	Buy	4.92	Ordinary	9,705	9,705
30-Apr-19	The Vanguard Group, Inc.	Buy	4.86	Ordinary	2,460	2,460
3-May-19	The Vanguard Group, Inc.	Buy	5.01	Ordinary	2,268	2,268
6-May-19	The Vanguard Group, Inc.	Sell	5.01	Ordinary	(7,422)	(7,422)
7-May-19	The Vanguard Group, Inc.	Buy	4.95	Ordinary	174,486	174,486
7-May-19	The Vanguard Group, Inc.	Buy	4.95	Ordinary	2,850	2,850
7-May-19	The Vanguard Group, Inc.	Buy	4.96	Ordinary	2,268	2,268
8-May-19	The Vanguard Group, Inc.	Sell	4.88	Ordinary	(7,422)	(7,422)
8-May-19	The Vanguard Group, Inc.	Buy	4.88	Ordinary	2,460	2,460
9-May-19	The Vanguard Group, Inc.	Buy	4.82	Ordinary	9,570	9,570
9-May-19	The Vanguard Group, Inc.	Buy	4.82	Ordinary	1,856	1,856
10-May-19	The Vanguard Group, Inc.	Buy	4.78	Ordinary	222,948	222,948
10-May-19	The Vanguard Group, Inc.	Sell	4.79	Ordinary	(19,153)	(19,153)
10-May-19	The Vanguard Group, Inc.	Buy	4.79	Ordinary	1,429	1,429
14-May-19	The Vanguard Group, Inc.	Sell	4.69	Ordinary	(7,422)	(7,422)
14-May-19	The Vanguard Group, Inc.	Buy	4.69	Ordinary	6,480	6,480
14-May-19	The Vanguard Group, Inc.	Buy	4.69	Ordinary	928	928
14-May-19	The Vanguard Group, Inc.	Buy	4.68	Ordinary	686	686
15-May-19	The Vanguard Group, Inc.	Buy	4.70	Ordinary	15,460	15,460
16-May-19	The Vanguard Group, Inc.	Buy	4.63	Ordinary	182,529	182,529
21-May-19	The Vanguard Group, Inc.	Buy	4.99	Ordinary	6,201	6,201
22-May-19	The Vanguard Group, Inc.	Buy	5.18	Ordinary	5,892	5,892
24-May-19	The Vanguard Group, Inc.	Buy	5.23	Ordinary	2,889	2,889
28-May-19	The Vanguard Group, Inc.	Buy	5.12	Ordinary	7,975	7,975
28-May-19	The Vanguard Group, Inc.	Sell	5.16	Ordinary	(56,189)	(56,189)
28-May-19	The Vanguard Group, Inc.	Buy	5.16	Ordinary	5,823	5,823
29-May-19	The Vanguard Group, Inc.	Buy	5.14	Ordinary	4,654	4,654
29-May-19	The Vanguard Group, Inc.	Sell	5.15	Ordinary	(1,129)	(1,129)

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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
31-May-19	The Vanguard Group, Inc.	Sell	5.43	Ordinary	(34,107)	(34,107)
4-Jun-19	The Vanguard Group, Inc.	Buy	5.23	Ordinary	10,575	10,575
5-Jun-19	The Vanguard Group, Inc.	Sell	5.25	Ordinary	(9,896)	(9,896)
5-Jun-19	The Vanguard Group, Inc.	Sell	5.25	Ordinary	(4,948)	(4,948)
5-Jun-19	The Vanguard Group, Inc.	Sell	5.23	Ordinary	(2,268)	(2,268)
6-Jun-19	The Vanguard Group, Inc.	Buy	5.23	Ordinary	1,856	1,856
6-Jun-19	The Vanguard Group, Inc.	Buy	5.22	Ordinary	10,924	10,924
6-Jun-19	The Vanguard Group, Inc.	Buy	5.20	Ordinary	686	686
6-Jun-19	The Vanguard Group, Inc.	Sell	5.20	Ordinary	(38,162)	(38,162)
7-Jun-19	The Vanguard Group, Inc.	Buy	5.30	Ordinary	1,856	1,856
7-Jun-19	The Vanguard Group, Inc.	Buy	5.30	Ordinary	1,640	1,640
7-Jun-19	The Vanguard Group, Inc.	Sell	5.28	Ordinary	(5,309)	(5,309)
7-Jun-19	The Vanguard Group, Inc.	Buy	5.28	Ordinary	57,392	57,392
7-Jun-19	The Vanguard Group, Inc.	Buy	5.28	Ordinary	294	294
10-Jun-19	The Vanguard Group, Inc.	Buy	5.32	Ordinary	2,460	2,460
11-Jun-19	The Vanguard Group, Inc.	Sell	5.35	Ordinary	(6,185)	(6,185)
12-Jun-19	The Vanguard Group, Inc.	Sell	5.37	Ordinary	(36,401)	(36,401)
12-Jun-19	The Vanguard Group, Inc.	Buy	5.37	Ordinary	1,032	1,032
14-Jun-19	The Vanguard Group, Inc.	Sell	5.39	Ordinary	(3,711)	(3,711)
14-Jun-19	The Vanguard Group, Inc.	Buy	5.39	Ordinary	1,640	1,640
14-Jun-19	The Vanguard Group, Inc.	Buy	5.39	Ordinary	1,640	1,640
14-Jun-19	The Vanguard Group, Inc.	Sell	5.39	Ordinary	(43,628)	(43,628)
17-Jun-19	The Vanguard Group, Inc.	Buy	5.37	Ordinary	686	686
17-Jun-19	The Vanguard Group, Inc.	Sell	5.37	Ordinary	(9,588)	(9,588)
18-Jun-19	The Vanguard Group, Inc.	Buy	5.25	Ordinary	1,856	1,856
19-Jun-19	The Vanguard Group, Inc.	Buy	5.34	Ordinary	48,529	48,529
21-Jun-19	The Vanguard Group, Inc.	Sell	5.35	Ordinary	(7,684)	(7,684)
24-Jun-19	The Vanguard Group, Inc.	Buy	5.23	Ordinary	12,512	12,512
25-Jun-19	The Vanguard Group, Inc.	Sell	5.23	Ordinary	(3,711)	(3,711)
26-Jun-19	The Vanguard Group, Inc.	Buy	5.23	Ordinary	55,232	55,232
26-Jun-19	The Vanguard Group, Inc.	Buy	5.16	Ordinary	2,268	2,268
26-Jun-19	The Vanguard Group, Inc.	Buy	5.16	Ordinary	5,487	5,487
27-Jun-19	The Vanguard Group, Inc.	Sell	5.16	Ordinary	(1,798)	(1,798)
28-Jun-19	The Vanguard Group, Inc.	Buy	5.14	Ordinary	7,490	7,490
1-Jul-19	The Vanguard Group, Inc.	Buy	5.13	Ordinary	1,498	1,498
2-Jul-19	The Vanguard Group, Inc.	Buy	5.18	Ordinary	21,810	21,810
4-Jul-19	The Vanguard Group, Inc.	Buy	5.37	Ordinary	10,384	10,384
5-Jul-19	The Vanguard Group, Inc.	Buy	5.51	Ordinary	6,380	6,380
9-Jul-19	The Vanguard Group, Inc.	Buy	5.47	Ordinary	686	686
10-Jul-19	The Vanguard Group, Inc.	Buy	5.39	Ordinary	3,322	3,322
12-Jul-19	The Vanguard Group, Inc.	Buy	5.44	Ordinary	115,152	115,152
12-Jul-19	The Vanguard Group, Inc.	Sell	5.45	Ordinary	(17,742)	(17,742)
15-Jul-19	The Vanguard Group, Inc.	Buy	5.39	Ordinary	9,570	9,570
19-Jul-19	The Vanguard Group, Inc.	Buy	5.54	Ordinary	1,768	1,768
22-Jul-19	The Vanguard Group, Inc.	Buy	5.43	Ordinary	7,975	7,975
22-Jul-19	The Vanguard Group, Inc.	Buy	5.43	Ordinary	7,975	7,975
22-Jul-19	The Vanguard Group, Inc.	Buy	5.43	Ordinary	1,768	1,768
22-Jul-19	The Vanguard Group, Inc.	Sell	5.43	Ordinary	(20,650)	(20,650)
23-Jul-19	The Vanguard Group, Inc.	Buy	5.46	Ordinary	100,921	100,921
25-Jul-19	The Vanguard Group, Inc.	Buy	5.68	Ordinary	4,692	4,692
26-Jul-19	The Vanguard Group, Inc.	Buy	5.63	Ordinary	7,820	7,820
26-Jul-19	The Vanguard Group, Inc.	Buy	5.63	Ordinary	1,768	1,768
26-Jul-19	The Vanguard Group, Inc.	Sell	5.61	Ordinary	(5,108)	(5,108)
26-Jul-19	The Vanguard Group, Inc.	Buy	5.61	Ordinary	307	307
29-Jul-19	The Vanguard Group, Inc.	Sell	5.64	Ordinary	(24,907)	(24,907)
30-Jul-19	The Vanguard Group, Inc.	Sell	5.62	Ordinary	(4,948)	(4,948)
30-Jul-19	The Vanguard Group, Inc.	Buy	5.62	Ordinary	1,452	1,452
30-Jul-19	The Vanguard Group, Inc.	Buy	5.61	Ordinary	2,268	2,268
30-Jul-19	The Vanguard Group, Inc.	Buy	5.61	Ordinary	15,152	15,152
1-Aug-19	The Vanguard Group, Inc.	Buy	5.20	Ordinary	14,355	14,355
1-Aug-19	The Vanguard Group, Inc.	Sell	5.22	Ordinary	(43,986)	(43,986)
2-Aug-19	The Vanguard Group, Inc.	Buy	5.21	Ordinary	6,256	6,256
5-Aug-19	The Vanguard Group, Inc.	Buy	5.08	Ordinary	7,820	7,820
6-Aug-19	The Vanguard Group, Inc.	Buy	5.01	Ordinary	143,129	143,129
6-Aug-19	The Vanguard Group, Inc.	Buy	5.07	Ordinary	884	884

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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
6-Aug-19	The Vanguard Group, Inc.	Buy	5.07	Ordinary	1,452	1,452
6-Aug-19	The Vanguard Group, Inc.	Buy	5.02	Ordinary	14,021	14,021
7-Aug-19	The Vanguard Group, Inc.	Sell	5.02	Ordinary	(1,258)	(1,258)
8-Aug-19	The Vanguard Group, Inc.	Sell	5.10	Ordinary	(6,185)	(6,185)
8-Aug-19	The Vanguard Group, Inc.	Buy	5.06	Ordinary	2,727	2,727
9-Aug-19	The Vanguard Group, Inc.	Buy	5.07	Ordinary	2,652	2,652
13-Aug-19	The Vanguard Group, Inc.	Sell	5.10	Ordinary	(8,659)	(8,659)
13-Aug-19	The Vanguard Group, Inc.	Buy	5.10	Ordinary	1,768	1,768
14-Aug-19	The Vanguard Group, Inc.	Buy	5.08	Ordinary	686	686
14-Aug-19	The Vanguard Group, Inc.	Sell	5.06	Ordinary	(7,673)	(7,673)
15-Aug-19	The Vanguard Group, Inc.	Sell	5.00	Ordinary	(7,422)	(7,422)
15-Aug-19	The Vanguard Group, Inc.	Buy	5.02	Ordinary	170,835	170,835
19-Aug-19	The Vanguard Group, Inc.	Buy	5.02	Ordinary	1,452	1,452
19-Aug-19	The Vanguard Group, Inc.	Buy	5.00	Ordinary	12,214	12,214
19-Aug-19	The Vanguard Group, Inc.	Sell	5.00	Ordinary	(1,134)	(1,134)
20-Aug-19	The Vanguard Group, Inc.	Buy	4.97	Ordinary	1,452	1,452
21-Aug-19	The Vanguard Group, Inc.	Sell	4.98	Ordinary	(1,949,402)	(1,949,402)
22-Aug-19	The Vanguard Group, Inc.	Sell	4.99	Ordinary	(29,932)	(29,932)
23-Aug-19	The Vanguard Group, Inc.	Buy	4.87	Ordinary	1,452	1,452
27-Aug-19	The Vanguard Group, Inc.	Sell	4.07	Ordinary	(7,395)	(7,395)
29-Aug-19	The Vanguard Group, Inc.	Buy	4.40	Ordinary	19,171	19,171
2-Sep-19	The Vanguard Group, Inc.	Buy	4.29	Ordinary	11,673	11,673
6-Sep-19	The Vanguard Group, Inc.	Buy	4.42	Ordinary	686	686
6-Sep-19	The Vanguard Group, Inc.	Sell	4.40	Ordinary	(8,916)	(8,916)
10-Sep-19	The Vanguard Group, Inc.	Sell	4.47	Ordinary	(567)	(567)
16-Sep-19	The Vanguard Group, Inc.	Buy	4.87	Ordinary	3,711	3,711
16-Sep-19	The Vanguard Group, Inc.	Buy	4.87	Ordinary	1,452	1,452
16-Sep-19	The Vanguard Group, Inc.	Buy	4.86	Ordinary	7,655	7,655
20-Sep-19	The Vanguard Group, Inc.	Sell	4.89	Ordinary	(8,579)	(8,579)
20-Sep-19	The Vanguard Group, Inc.	Sell	4.89	Ordinary	(5,998)	(5,998)
24-Sep-19	The Vanguard Group, Inc.	Buy	4.93	Ordinary	16,733	16,733
24-Sep-19	The Vanguard Group, Inc.	Sell	4.93	Ordinary	(1,625)	(1,625)
25-Sep-19	The Vanguard Group, Inc.	Buy	4.85	Ordinary	17,474	17,474
27-Sep-19	The Vanguard Group, Inc.	Sell	4.87	Ordinary	(889)	(889)
30-Sep-19	The Vanguard Group, Inc.	Buy	4.84	Ordinary	1,740	1,740
1-Oct-19	The Vanguard Group, Inc.	Buy	4.79	Ordinary	2,265	2,265
2-Oct-19	The Vanguard Group, Inc.	Buy	4.63	Ordinary	870	870
2-Oct-19	The Vanguard Group, Inc.	Buy	4.63	Ordinary	1,398	1,398
4-Oct-19	The Vanguard Group, Inc.	Buy	4.60	Ordinary	1,398	1,398
8-Oct-19	The Vanguard Group, Inc.	Buy	4.59	Ordinary	1,398	1,398
16-Oct-19	The Vanguard Group, Inc.	Buy	4.87	Ordinary	1,740	1,740
21-Oct-19	The Vanguard Group, Inc.	Buy	4.73	Ordinary	1,740	1,740
21-Oct-19	The Vanguard Group, Inc.	Buy	4.72	Ordinary	602	602
25-Oct-19	The Vanguard Group, Inc.	Sell	4.90	Ordinary	(14,844)	(14,844)
25-Oct-19	The Vanguard Group, Inc.	Buy	4.90	Ordinary	1,620	1,620
25-Oct-19	The Vanguard Group, Inc.	Buy	4.90	Ordinary	2,097	2,097
25-Oct-19	The Vanguard Group, Inc.	Buy	4.88	Ordinary	602	602
25-Oct-19	The Vanguard Group, Inc.	Buy	4.88	Ordinary	14,836	14,836
25-Oct-19	The Vanguard Group, Inc.	Sell	4.88	Ordinary	(37)	(37)
28-Oct-19	The Vanguard Group, Inc.	Buy	4.97	Ordinary	36,337	36,337
29-Oct-19	The Vanguard Group, Inc.	Sell	5.03	Ordinary	(15,466)	(15,466)
30-Oct-19	The Vanguard Group, Inc.	Buy	5.05	Ordinary	65,784	65,784
31-Oct-19	The Vanguard Group, Inc.	Sell	5.03	Ordinary	(17,466)	(17,466)
1-Nov-19	The Vanguard Group, Inc.	Buy	5.05	Ordinary	455	455
8-Nov-19	The Vanguard Group, Inc.	Buy	5.00	Ordinary	1,398	1,398
8-Nov-19	The Vanguard Group, Inc.	Buy	4.98	Ordinary	602	602
13-Nov-19	The Vanguard Group, Inc.	Buy	4.93	Ordinary	619	619
15-Nov-19	The Vanguard Group, Inc.	Buy	5.03	Ordinary	1,398	1,398
18-Nov-19	The Vanguard Group, Inc.	Buy	4.99	Ordinary	2,364	2,364
19-Nov-19	The Vanguard Group, Inc.	Buy	5.03	Ordinary	602	602
20-Nov-19	The Vanguard Group, Inc.	Buy	4.92	Ordinary	2,866	2,866
21-Nov-19	The Vanguard Group, Inc.	Buy	4.88	Ordinary	1,398	1,398
21-Nov-19	The Vanguard Group, Inc.	Buy	4.87	Ordinary	583	583
22-Nov-19	The Vanguard Group, Inc.	Sell	4.90	Ordinary	(1,416)	(1,416)
25-Nov-19	The Vanguard Group, Inc.	Buy	4.92	Ordinary	32,909	32,909

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-Nov-19	The Vanguard Group, Inc.	Sell	4.90	Ordinary	(263)	(263)
26-Nov-19	The Vanguard Group, Inc.	Buy	4.90	Ordinary	699	699
27-Nov-19	The Vanguard Group, Inc.	Buy	5.08	Ordinary	788	788
27-Nov-19	The Vanguard Group, Inc.	Buy	5.07	Ordinary	2,265	2,265
29-Nov-19	The Vanguard Group, Inc.	Buy	5.15	Ordinary	1,398	1,398
29-Nov-19	The Vanguard Group, Inc.	Buy	5.14	Ordinary	602	602
2-Dec-19	The Vanguard Group, Inc.	Buy	5.07	Ordinary	22,330	22,330
3-Dec-19	The Vanguard Group, Inc.	Buy	4.95	Ordinary	3,152	3,152
3-Dec-19	The Vanguard Group, Inc.	Buy	4.98	Ordinary	602	602
3-Dec-19	The Vanguard Group, Inc.	Buy	4.98	Ordinary	1,204	1,204
4-Dec-19	The Vanguard Group, Inc.	Buy	4.88	Ordinary	4,869	4,869
4-Dec-19	The Vanguard Group, Inc.	Buy	4.84	Ordinary	22,852	22,852
4-Dec-19	The Vanguard Group, Inc.	Buy	4.84	Ordinary	295	295
6-Dec-19	The Vanguard Group, Inc.	Buy	4.61	Ordinary	20,885	20,885
9-Dec-19	The Vanguard Group, Inc.	Buy	4.57	Ordinary	3,045	3,045
10-Dec-19	The Vanguard Group, Inc.	Buy	4.50	Ordinary	602	602
11-Dec-19	The Vanguard Group, Inc.	Buy	4.55	Ordinary	1,398	1,398
11-Dec-19	The Vanguard Group, Inc.	Buy	4.55	Ordinary	1,398	1,398
12-Dec-19	The Vanguard Group, Inc.	Buy	4.53	Ordinary	3,807	3,807
13-Dec-19	The Vanguard Group, Inc.	Buy	4.51	Ordinary	1,576	1,576
16-Dec-19	The Vanguard Group, Inc.	Buy	4.48	Ordinary	1,398	1,398
20-Dec-19	The Vanguard Group, Inc.	Buy	4.48	Ordinary	8,311	8,311
23-Dec-19	The Vanguard Group, Inc.	Buy	4.50	Ordinary	22,330	22,330
23-Dec-19	The Vanguard Group, Inc.	Buy	4.50	Ordinary	4,785	4,785
23-Dec-19	The Vanguard Group, Inc.	Buy	4.50	Ordinary	2,319	2,319
24-Dec-19	The Vanguard Group, Inc.	Buy	4.50	Ordinary	9,570	9,570
26-Dec-19	The Vanguard Group, Inc.	Buy	4.51	Ordinary	23,925	23,925
27-Dec-19	The Vanguard Group, Inc.	Buy	4.54	Ordinary	1,398	1,398
30-Dec-19	The Vanguard Group, Inc.	Sell	4.55	Ordinary	(32,025)	(32,025)
31-Dec-19	The Vanguard Group, Inc.	Buy	4.48	Ordinary	34,759	34,759
31-Dec-19	The Vanguard Group, Inc.	Buy	4.48	Ordinary	602	602
31-Dec-19	The Vanguard Group, Inc.	Buy	4.48	Ordinary	602	602
2-Jan-20	The Vanguard Group, Inc.	Buy	4.53	Ordinary	1,398	1,398
3-Jan-20	The Vanguard Group, Inc.	Buy	4.52	Ordinary	1,398	1,398
6-Jan-20	The Vanguard Group, Inc.	Buy	4.57	Ordinary	813	813
6-Jan-20	The Vanguard Group, Inc.	Buy	4.57	Ordinary	4,194	4,194
8-Jan-20	The Vanguard Group, Inc.	Buy	4.60	Ordinary	602	602
8-Jan-20	The Vanguard Group, Inc.	Buy	4.60	Ordinary	18,762	18,762
9-Jan-20	The Vanguard Group, Inc.	Buy	4.79	Ordinary	28,710	28,710
9-Jan-20	The Vanguard Group, Inc.	Buy	4.77	Ordinary	3,683	3,683
10-Jan-20	The Vanguard Group, Inc.	Buy	4.85	Ordinary	126,842	126,842
10-Jan-20	The Vanguard Group, Inc.	Buy	4.82	Ordinary	1,626	1,626
10-Jan-20	The Vanguard Group, Inc.	Buy	4.85	Ordinary	602	602
13-Jan-20	The Vanguard Group, Inc.	Buy	4.88	Ordinary	2,265	2,265
13-Jan-20	The Vanguard Group, Inc.	Buy	4.88	Ordinary	602	602
14-Jan-20	The Vanguard Group, Inc.	Buy	4.85	Ordinary	1,626	1,626
15-Jan-20	The Vanguard Group, Inc.	Buy	4.89	Ordinary	12,760	12,760
15-Jan-20	The Vanguard Group, Inc.	Buy	4.89	Ordinary	602	602
16-Jan-20	The Vanguard Group, Inc.	Buy	4.95	Ordinary	14,355	14,355
17-Jan-20	The Vanguard Group, Inc.	Buy	4.93	Ordinary	12,760	12,760
17-Jan-20	The Vanguard Group, Inc.	Buy	4.93	Ordinary	14,355	14,355
17-Jan-20	The Vanguard Group, Inc.	Buy	4.93	Ordinary	699	699
17-Jan-20	The Vanguard Group, Inc.	Buy	4.91	Ordinary	3,446	3,446
21-Jan-20	The Vanguard Group, Inc.	Buy	5.00	Ordinary	19,035	19,035
21-Jan-20	The Vanguard Group, Inc.	Buy	5.00	Ordinary	2,097	2,097
22-Jan-20	The Vanguard Group, Inc.	Buy	5.05	Ordinary	9,570	9,570
22-Jan-20	The Vanguard Group, Inc.	Buy	5.07	Ordinary	2,265	2,265
22-Jan-20	The Vanguard Group, Inc.	Buy	5.07	Ordinary	7,088	7,088
23-Jan-20	The Vanguard Group, Inc.	Buy	5.08	Ordinary	7,975	7,975
23-Jan-20	The Vanguard Group, Inc.	Buy	5.08	Ordinary	2,439	2,439
28-Jan-20	The Vanguard Group, Inc.	Buy	4.99	Ordinary	602	602
30-Jan-20	The Vanguard Group, Inc.	Buy	5.01	Ordinary	140,908	140,908
30-Jan-20	The Vanguard Group, Inc.	Buy	5.04	Ordinary	821	821
31-Jan-20	The Vanguard Group, Inc.	Buy	4.92	Ordinary	9,570	9,570
31-Jan-20	The Vanguard Group, Inc.	Buy	4.92	Ordinary	9,570	9,570

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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
31-Jan-20	The Vanguard Group, Inc.	Buy	4.92	Ordinary	1,398	1,398
31-Jan-20	The Vanguard Group, Inc.	Buy	4.98	Ordinary	28,034	28,034
3-Feb-20	The Vanguard Group, Inc.	Buy	4.91	Ordinary	6,795	6,795
4-Feb-20	The Vanguard Group, Inc.	Buy	4.90	Ordinary	5,076	5,076
4-Feb-20	The Vanguard Group, Inc.	Buy	4.90	Ordinary	20,304	20,304
4-Feb-20	The Vanguard Group, Inc.	Buy	4.87	Ordinary	4,357	4,357
4-Feb-20	The Vanguard Group, Inc.	Buy	4.87	Ordinary	685	685
4-Feb-20	The Vanguard Group, Inc.	Buy	4.87	Ordinary	600	600
5-Feb-20	The Vanguard Group, Inc.	Buy	5.06	Ordinary	30,058	30,058
5-Feb-20	The Vanguard Group, Inc.	Buy	5.06	Ordinary	11,074	11,074
6-Feb-20	The Vanguard Group, Inc.	Buy	5.21	Ordinary	2,463	2,463
10-Feb-20	The Vanguard Group, Inc.	Buy	4.63	Ordinary	14,238	14,238
10-Feb-20	The Vanguard Group, Inc.	Buy	4.63	Ordinary	1,398	1,398
10-Feb-20	The Vanguard Group, Inc.	Buy	4.60	Ordinary	2,265	2,265
11-Feb-20	The Vanguard Group, Inc.	Buy	4.73	Ordinary	9,492	9,492
11-Feb-20	The Vanguard Group, Inc.	Buy	4.74	Ordinary	685	685
11-Feb-20	The Vanguard Group, Inc.	Buy	4.74	Ordinary	685	685
13-Feb-20	The Vanguard Group, Inc.	Buy	4.74	Ordinary	20,566	20,566
13-Feb-20	The Vanguard Group, Inc.	Sell	4.80	Ordinary	(946)	(946)
13-Feb-20	The Vanguard Group, Inc.	Buy	4.74	Ordinary	1,622	1,622
13-Feb-20	The Vanguard Group, Inc.	Buy	4.74	Ordinary	685	685
14-Feb-20	The Vanguard Group, Inc.	Buy	4.71	Ordinary	9,492	9,492
14-Feb-20	The Vanguard Group, Inc.	Buy	4.71	Ordinary	2,097	2,097
14-Feb-20	The Vanguard Group, Inc.	Sell	4.72	Ordinary	(15,605)	(15,605)
18-Feb-20	The Vanguard Group, Inc.	Buy	4.80	Ordinary	3,978	3,978
19-Feb-20	The Vanguard Group, Inc.	Buy	4.81	Ordinary	103,519	103,519
19-Feb-20	The Vanguard Group, Inc.	Buy	4.84	Ordinary	7,890	7,890
20-Feb-20	The Vanguard Group, Inc.	Buy	4.83	Ordinary	15,855	15,855
21-Feb-20	The Vanguard Group, Inc.	Buy	5.06	Ordinary	12,520	12,520
24-Feb-20	The Vanguard Group, Inc.	Sell	4.79	Ordinary	(6,185)	(6,185)
24-Feb-20	The Vanguard Group, Inc.	Buy	4.79	Ordinary	1,398	1,398
25-Feb-20	The Vanguard Group, Inc.	Sell	4.63	Ordinary	(2,474)	(2,474)
25-Feb-20	The Vanguard Group, Inc.	Buy	4.81	Ordinary	118,507	118,507
25-Feb-20	The Vanguard Group, Inc.	Buy	4.63	Ordinary	9,390	9,390
25-Feb-20	The Vanguard Group, Inc.	Buy	4.63	Ordinary	811	811
26-Feb-20	The Vanguard Group, Inc.	Buy	4.67	Ordinary	2,433	2,433
26-Feb-20	The Vanguard Group, Inc.	Buy	4.67	Ordinary	1,622	1,622
26-Feb-20	The Vanguard Group, Inc.	Buy	4.69	Ordinary	4,036	4,036
26-Feb-20	The Vanguard Group, Inc.	Buy	4.65	Ordinary	73,033	73,033
27-Feb-20	The Vanguard Group, Inc.	Buy	4.77	Ordinary	146,277	146,277
28-Feb-20	The Vanguard Group, Inc.	Buy	4.52	Ordinary	130,145	130,145
28-Feb-20	The Vanguard Group, Inc.	Sell	4.51	Ordinary	(17,249)	(17,249)
2-Mar-20	The Vanguard Group, Inc.	Sell	4.58	Ordinary	(12,520)	(12,520)
3-Mar-20	The Vanguard Group, Inc.	Buy	4.33	Ordinary	1,398	1,398
3-Mar-20	The Vanguard Group, Inc.	Buy	4.43	Ordinary	40,806	40,806
3-Mar-20	The Vanguard Group, Inc.	Buy	4.50	Ordinary	4,343	4,343
4-Mar-20	The Vanguard Group, Inc.	Buy	4.34	Ordinary	14,225	14,225
4-Mar-20	The Vanguard Group, Inc.	Buy	4.35	Ordinary	2,796	2,796
4-Mar-20	The Vanguard Group, Inc.	Buy	4.35	Ordinary	2,097	2,097
4-Mar-20	The Vanguard Group, Inc.	Buy	4.28	Ordinary	688	688
5-Mar-20	The Vanguard Group, Inc.	Sell	4.33	Ordinary	(138,315)	(138,315)
6-Mar-20	The Vanguard Group, Inc.	Sell	4.16	Ordinary	(9,390)	(9,390)
6-Mar-20	The Vanguard Group, Inc.	Buy	4.18	Ordinary	685	685
6-Mar-20	The Vanguard Group, Inc.	Sell	4.18	Ordinary	(103,487)	(103,487)
9-Mar-20	The Vanguard Group, Inc.	Buy	3.76	Ordinary	2,097	2,097
9-Mar-20	The Vanguard Group, Inc.	Buy	3.76	Ordinary	699	699
9-Mar-20	The Vanguard Group, Inc.	Sell	3.85	Ordinary	(25,684)	(25,684)
10-Mar-20	The Vanguard Group, Inc.	Sell	3.94	Ordinary	(7,825)	(7,825)
10-Mar-20	The Vanguard Group, Inc.	Sell	3.68	Ordinary	(3,609)	(3,609)
11-Mar-20	The Vanguard Group, Inc.	Buy	3.77	Ordinary	156,087	156,087
11-Mar-20	The Vanguard Group, Inc.	Sell	3.56	Ordinary	(4,695)	(4,695)
12-Mar-20	The Vanguard Group, Inc.	Sell	3.15	Ordinary	(17,215)	(17,215)
12-Mar-20	The Vanguard Group, Inc.	Buy	3.28	Ordinary	4,755	4,755
13-Mar-20	The Vanguard Group, Inc.	Buy	2.97	Ordinary	170,726	170,726
13-Mar-20	The Vanguard Group, Inc.	Buy	3.10	Ordinary	3,495	3,495

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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
13-Mar-20	The Vanguard Group, Inc.	Buy	3.10	Ordinary	699	699
13-Mar-20	The Vanguard Group, Inc.	Buy	3.03	Ordinary	685	685
13-Mar-20	The Vanguard Group, Inc.	Buy	3.03	Ordinary	39,730	39,730
2-Aug-18	Vanguard Investments Australia Ltd.	Buy	6.65	Ordinary	9,576	9,576
3-Aug-18	Vanguard Investments Australia Ltd.	Buy	6.63	Ordinary	18,750	18,750
7-Aug-18	Vanguard Investments Australia Ltd.	Buy	6.55	Ordinary	18,943	18,943
15-Aug-18	Vanguard Investments Australia Ltd.	Buy	6.54	Ordinary	6,240	6,240
15-Aug-18	Vanguard Investments Australia Ltd.	Buy	6.54	Ordinary	19,407	19,407
21-Aug-18	Vanguard Investments Australia Ltd.	Buy	6.58	Ordinary	10,400	10,400
28-Aug-18	Vanguard Investments Australia Ltd.	Buy	6.42	Ordinary	59,406	59,406
4-Sep-18	Vanguard Investments Australia Ltd.	Buy	6.98	Ordinary	11,418	11,418
7-Sep-18	Vanguard Investments Australia Ltd.	Buy	6.95	Ordinary	54,133	54,133
10-Sep-18	Vanguard Investments Australia Ltd.	Sell	6.93	Ordinary	(17,740)	(17,740)
10-Sep-18	Vanguard Investments Australia Ltd.	Buy	6.93	Ordinary	10,380	10,380
11-Sep-18	Vanguard Investments Australia Ltd.	Sell	6.87	Ordinary	(12,609)	(12,609)
17-Sep-18	Vanguard Investments Australia Ltd.	Buy	6.91	Ordinary	11,671	11,671
21-Sep-18	Vanguard Investments Australia Ltd.	Buy	6.86	Ordinary	17,188	17,188
21-Sep-18	Vanguard Investments Australia Ltd.	Buy	6.86	Ordinary	13,618	13,618
21-Sep-18	Vanguard Investments Australia Ltd.	Buy	6.86	Ordinary	29,929	29,929
21-Sep-18	Vanguard Investments Australia Ltd.	Buy	6.86	Ordinary	17,796	17,796
26-Sep-18	Vanguard Investments Australia Ltd.	Buy	6.95	Ordinary	6,198	6,198
27-Sep-18	Vanguard Investments Australia Ltd.	Buy	6.85	Ordinary	19,582	19,582
27-Sep-18	Vanguard Investments Australia Ltd.	Buy	6.85	Ordinary	7,840	7,840
27-Sep-18	Vanguard Investments Australia Ltd.	Buy	6.85	Ordinary	19,838	19,838
27-Sep-18	Vanguard Investments Australia Ltd.	Buy	6.85	Ordinary	23,704	23,704
27-Sep-18	Vanguard Investments Australia Ltd.	Buy	6.88	Ordinary	79,541	79,541
1-Oct-18	Vanguard Investments Australia Ltd.	Buy	7.00	Ordinary	9,162	9,162
3-Oct-18	Vanguard Investments Australia Ltd.	Buy	7.01	Ordinary	54,928	54,928
8-Oct-18	Vanguard Investments Australia Ltd.	Buy	6.75	Ordinary	9,162	9,162
10-Oct-18	Vanguard Investments Australia Ltd.	Buy	6.60	Ordinary	3,001	3,001
10-Oct-18	Vanguard Investments Australia Ltd.	Sell	6.60	Ordinary	(7,400)	(7,400)
11-Oct-18	Vanguard Investments Australia Ltd.	Buy	6.39	Ordinary	12,216	12,216
17-Oct-18	Vanguard Investments Australia Ltd.	Buy	6.54	Ordinary	17,306	17,306
24-Oct-18	Vanguard Investments Australia Ltd.	Buy	5.77	Ordinary	12,648	12,648
25-Oct-18	Vanguard Investments Australia Ltd.	Buy	5.64	Ordinary	27,064	27,064
25-Oct-18	Vanguard Investments Australia Ltd.	Sell	5.64	Ordinary	(8,025)	(8,025)
25-Oct-18	Vanguard Investments Australia Ltd.	Buy	5.64	Ordinary	14,756	14,756
26-Oct-18	Vanguard Investments Australia Ltd.	Buy	5.63	Ordinary	85,269	85,269
31-Oct-18	Vanguard Investments Australia Ltd.	Buy	5.61	Ordinary	3,183	3,183
31-Oct-18	Vanguard Investments Australia Ltd.	Buy	5.61	Ordinary	16,976	16,976
1-Nov-18	Vanguard Investments Australia Ltd.	Buy	5.67	Ordinary	2,174	2,174
2-Nov-18	Vanguard Investments Australia Ltd.	Buy	5.61	Ordinary	14,131	14,131
6-Nov-18	Vanguard Investments Australia Ltd.	Buy	5.50	Ordinary	57,729	57,729
12-Nov-18	Vanguard Investments Australia Ltd.	Buy	5.51	Ordinary	13,793	13,793
15-Nov-18	Vanguard Investments Australia Ltd.	Sell	5.38	Ordinary	(8,223)	(8,223)
19-Nov-18	Vanguard Investments Australia Ltd.	Sell	5.30	Ordinary	(42,849)	(42,849)
22-Nov-18	Vanguard Investments Australia Ltd.	Buy	5.19	Ordinary	14,854	14,854
23-Nov-18	Vanguard Investments Australia Ltd.	Buy	5.28	Ordinary	27,454	27,454
29-Nov-18	Vanguard Investments Australia Ltd.	Buy	5.26	Ordinary	11,352	11,352
3-Dec-18	Vanguard Investments Australia Ltd.	Buy	5.28	Ordinary	13,416	13,416
3-Dec-18	Vanguard Investments Australia Ltd.	Buy	5.28	Ordinary	24,114	24,114
4-Dec-18	Vanguard Investments Australia Ltd.	Buy	5.17	Ordinary	198,382	198,382
11-Dec-18	Vanguard Investments Australia Ltd.	Buy	4.86	Ordinary	12,012	12,012
11-Dec-18	Vanguard Investments Australia Ltd.	Buy	4.86	Ordinary	20,020	20,020
12-Dec-18	Vanguard Investments Australia Ltd.	Buy	4.99	Ordinary	835,115	835,115
14-Dec-18	Vanguard Investments Australia Ltd.	Sell	4.97	Ordinary	(6,006)	(6,006)
18-Dec-18	Vanguard Investments Australia Ltd.	Buy	4.96	Ordinary	402,978	402,978
19-Dec-18	Vanguard Investments Australia Ltd.	Buy	4.97	Ordinary	525,176	525,176
20-Dec-18	Vanguard Investments Australia Ltd.	Sell	4.81	Ordinary	(11,424)	(11,424)
20-Dec-18	Vanguard Investments Australia Ltd.	Buy	4.92	Ordinary	118,524	118,524
21-Dec-18	Vanguard Investments Australia Ltd.	Buy	4.78	Ordinary	49,898	49,898
21-Dec-18	Vanguard Investments Australia Ltd.	Buy	4.78	Ordinary	41,203	41,203
21-Dec-18	Vanguard Investments Australia Ltd.	Buy	4.78	Ordinary	37,656	37,656
21-Dec-18	Vanguard Investments Australia Ltd.	Buy	4.78	Ordinary	63,218	63,218
21-Dec-18	Vanguard Investments Australia Ltd.	Buy	4.77	Ordinary	1,066,722	1,066,722

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
21-Dec-18	Vanguard Investments Australia Ltd.	Buy	4.78	Ordinary	119,455	119,455
27-Dec-18	Vanguard Investments Australia Ltd.	Buy	4.88	Ordinary	5,928	5,928
31-Dec-18	Vanguard Investments Australia Ltd.	Buy	4.95	Ordinary	40,948	40,948
8-Jan-19	Vanguard Investments Australia Ltd.	Buy	5.08	Ordinary	9,760	9,760
11-Jan-19	Vanguard Investments Australia Ltd.	Buy	5.03	Ordinary	11,772	11,772
11-Jan-19	Vanguard Investments Australia Ltd.	Buy	5.03	Ordinary	28,110	28,110
18-Jan-19	Vanguard Investments Australia Ltd.	Buy	5.22	Ordinary	11,090	11,090
18-Jan-19	Vanguard Investments Australia Ltd.	Buy	5.22	Ordinary	6,902	6,902
18-Jan-19	Vanguard Investments Australia Ltd.	Buy	5.22	Ordinary	25,528	25,528
21-Jan-19	Vanguard Investments Australia Ltd.	Sell	5.23	Ordinary	(12,502)	(12,502)
21-Jan-19	Vanguard Investments Australia Ltd.	Buy	5.23	Ordinary	3,462	3,462
24-Jan-19	Vanguard Investments Australia Ltd.	Sell	4.93	Ordinary	(29,544)	(29,544)
30-Jan-19	Vanguard Investments Australia Ltd.	Buy	4.90	Ordinary	3,928	3,928
30-Jan-19	Vanguard Investments Australia Ltd.	Buy	4.90	Ordinary	30,933	30,933
1-Feb-19	Vanguard Investments Australia Ltd.	Buy	4.94	Ordinary	23,092	23,092
5-Feb-19	Vanguard Investments Australia Ltd.	Sell	4.65	Ordinary	(68,740)	(68,740)
13-Feb-19	Vanguard Investments Australia Ltd.	Buy	4.87	Ordinary	53,093	53,093
19-Feb-19	Vanguard Investments Australia Ltd.	Buy	4.84	Ordinary	10,802	10,802
25-Feb-19	Vanguard Investments Australia Ltd.	Buy	4.90	Ordinary	34,733	34,733
26-Feb-19	Vanguard Investments Australia Ltd.	Sell	4.83	Ordinary	(60,998)	(60,998)
26-Feb-19	Vanguard Investments Australia Ltd.	Buy	4.85	Ordinary	53,179	53,179
26-Feb-19	Vanguard Investments Australia Ltd.	Buy	4.85	Ordinary	9,820	9,820
5-Mar-19	Vanguard Investments Australia Ltd.	Buy	4.92	Ordinary	62,848	62,848
11-Mar-19	Vanguard Investments Australia Ltd.	Sell	4.93	Ordinary	(14,759)	(14,759)
12-Mar-19	Vanguard Investments Australia Ltd.	Sell	4.97	Ordinary	(36,140)	(36,140)
15-Mar-19	Vanguard Investments Australia Ltd.	Buy	4.88	Ordinary	768	768
15-Mar-19	Vanguard Investments Australia Ltd.	Buy	4.88	Ordinary	36,135	36,135
15-Mar-19	Vanguard Investments Australia Ltd.	Buy	4.88	Ordinary	676	676
15-Mar-19	Vanguard Investments Australia Ltd.	Buy	4.88	Ordinary	31,777	31,777
15-Mar-19	Vanguard Investments Australia Ltd.	Buy	4.88	Ordinary	243	243
15-Mar-19	Vanguard Investments Australia Ltd.	Buy	4.88	Ordinary	11,438	11,438
15-Mar-19	Vanguard Investments Australia Ltd.	Sell	4.88	Ordinary	(8,088)	(8,088)
15-Mar-19	Vanguard Investments Australia Ltd.	Buy	4.88	Ordinary	482	482
15-Mar-19	Vanguard Investments Australia Ltd.	Buy	4.88	Ordinary	22,681	22,681
15-Mar-19	Vanguard Investments Australia Ltd.	Buy	4.88	Ordinary	633	633
15-Mar-19	Vanguard Investments Australia Ltd.	Buy	4.88	Ordinary	29,758	29,758
15-Mar-19	Vanguard Investments Australia Ltd.	Buy	4.88	Ordinary	588	588
15-Mar-19	Vanguard Investments Australia Ltd.	Buy	4.88	Ordinary	27,649	27,649
22-Mar-19	Vanguard Investments Australia Ltd.	Buy	4.59	Ordinary	30,597	30,597
29-Mar-19	Vanguard Investments Australia Ltd.	Sell	4.59	Ordinary	(45,619)	(45,619)
1-Apr-19	Vanguard Investments Australia Ltd.	Buy	4.62	Ordinary	3,474	3,474
1-Apr-19	Vanguard Investments Australia Ltd.	Sell	4.62	Ordinary	(63,264)	(63,264)
1-Apr-19	Vanguard Investments Australia Ltd.	Buy	4.62	Ordinary	30,824	30,824
2-Apr-19	Vanguard Investments Australia Ltd.	Buy	4.69	Ordinary	35,789	35,789
2-Apr-19	Vanguard Investments Australia Ltd.	Buy	4.64	Ordinary	5,840	5,840
2-Apr-19	Vanguard Investments Australia Ltd.	Buy	4.64	Ordinary	6,720	6,720
8-Apr-19	Vanguard Investments Australia Ltd.	Buy	4.70	Ordinary	7,680	7,680
9-Apr-19	Vanguard Investments Australia Ltd.	Sell	4.77	Ordinary	(4,666)	(4,666)
9-Apr-19	Vanguard Investments Australia Ltd.	Buy	4.77	Ordinary	347,513	347,513
12-Apr-19	Vanguard Investments Australia Ltd.	Sell	4.73	Ordinary	(4,333)	(4,333)
16-Apr-19	Vanguard Investments Australia Ltd.	Buy	4.78	Ordinary	64,952	64,952
30-Apr-19	Vanguard Investments Australia Ltd.	Buy	4.85	Ordinary	11,604	11,604
1-May-19	Vanguard Investments Australia Ltd.	Buy	4.89	Ordinary	5,570	5,570
1-May-19	Vanguard Investments Australia Ltd.	Buy	4.89	Ordinary	47,060	47,060
1-May-19	Vanguard Investments Australia Ltd.	Buy	4.89	Ordinary	3,607	3,607
1-May-19	Vanguard Investments Australia Ltd.	Buy	4.89	Ordinary	30,453	30,453
1-May-19	Vanguard Investments Australia Ltd.	Buy	4.89	Ordinary	61,769	61,769
1-May-19	Vanguard Investments Australia Ltd.	Buy	4.89	Ordinary	7,310	7,310
3-May-19	Vanguard Investments Australia Ltd.	Sell	5.01	Ordinary	(23,369)	(23,369)
7-May-19	Vanguard Investments Australia Ltd.	Sell	4.95	Ordinary	(4,380)	(4,380)
10-May-19	Vanguard Investments Australia Ltd.	Buy	4.79	Ordinary	8,703	8,703
16-May-19	Vanguard Investments Australia Ltd.	Buy	4.62	Ordinary	34,994	34,994
17-May-19	Vanguard Investments Australia Ltd.	Buy	4.69	Ordinary	46,089	46,089
17-May-19	Vanguard Investments Australia Ltd.	Buy	4.69	Ordinary	9,670	9,670
21-May-19	Vanguard Investments Australia Ltd.	Buy	4.99	Ordinary	9,670	9,670

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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
27-May-19	Vanguard Investments Australia Ltd.	Sell	5.16	Ordinary	(30,412)	(30,412)
28-May-19	Vanguard Investments Australia Ltd.	Buy	5.16	Ordinary	10,580	10,580
29-May-19	Vanguard Investments Australia Ltd.	Sell	5.16	Ordinary	(21,435)	(21,435)
30-May-19	Vanguard Investments Australia Ltd.	Buy	5.20	Ordinary	60,194	60,194
3-Jun-19	Vanguard Investments Australia Ltd.	Sell	5.31	Ordinary	(20,208)	(20,208)
3-Jun-19	Vanguard Investments Australia Ltd.	Sell	5.31	Ordinary	(10,343)	(10,343)
4-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.20	Ordinary	49,563	49,563
4-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.20	Ordinary	10,580	10,580
5-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.23	Ordinary	2,438	2,438
6-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.20	Ordinary	2,436	2,436
6-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.20	Ordinary	12,696	12,696
7-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.27	Ordinary	56,850	56,850
11-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.37	Ordinary	3,654	3,654
12-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.39	Ordinary	34,886	34,886
13-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.35	Ordinary	2,436	2,436
17-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.37	Ordinary	8,464	8,464
18-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.32	Ordinary	153,350	153,350
19-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.35	Ordinary	138,015	138,015
20-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.31	Ordinary	124,213	124,213
21-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.35	Ordinary	2,339	2,339
21-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.35	Ordinary	26,391	26,391
21-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.35	Ordinary	2,166	2,166
21-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.35	Ordinary	24,443	24,443
21-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.35	Ordinary	3,651	3,651
21-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.35	Ordinary	865,234	865,234
21-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.35	Ordinary	6,342	6,342
21-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.35	Ordinary	3,179	3,179
21-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.35	Ordinary	35,870	35,870
24-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.25	Ordinary	227,419	227,419
26-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.16	Ordinary	6,195	6,195
27-Jun-19	Vanguard Investments Australia Ltd.	Sell	5.16	Ordinary	(12,809)	(12,809)
27-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.16	Ordinary	8,280	8,280
27-Jun-19	Vanguard Investments Australia Ltd.	Buy	5.16	Ordinary	7,623	7,623
2-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.18	Ordinary	6,129	6,129
2-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.18	Ordinary	12,852	12,852
8-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.45	Ordinary	12,258	12,258
8-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.45	Ordinary	6,426	6,426
9-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.47	Ordinary	6,426	6,426
9-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.47	Ordinary	30,200	30,200
11-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.38	Ordinary	6,722	6,722
11-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.39	Ordinary	6,462	6,462
15-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.39	Ordinary	27,045	27,045
15-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.39	Ordinary	6,129	6,129
16-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.36	Ordinary	18,349	18,349
16-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.34	Ordinary	12,900	12,900
18-Jul-19	Vanguard Investments Australia Ltd.	Sell	5.42	Ordinary	(5,274)	(5,274)
19-Jul-19	Vanguard Investments Australia Ltd.	Sell	5.57	Ordinary	(23,915)	(23,915)
19-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.57	Ordinary	29,385	29,385
22-Jul-19	Vanguard Investments Australia Ltd.	Sell	5.43	Ordinary	(719,395)	(719,395)
22-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.43	Ordinary	6,129	6,129
30-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.61	Ordinary	11,836	11,836
31-Jul-19	Vanguard Investments Australia Ltd.	Buy	5.16	Ordinary	6,129	6,129
1-Aug-19	Vanguard Investments Australia Ltd.	Sell	5.22	Ordinary	(7,151)	(7,151)
6-Aug-19	Vanguard Investments Australia Ltd.	Buy	5.02	Ordinary	8,172	8,172
6-Aug-19	Vanguard Investments Australia Ltd.	Buy	5.02	Ordinary	9,684	9,684
6-Aug-19	Vanguard Investments Australia Ltd.	Buy	5.02	Ordinary	9,684	9,684
6-Aug-19	Vanguard Investments Australia Ltd.	Buy	5.02	Ordinary	30,952	30,952
7-Aug-19	Vanguard Investments Australia Ltd.	Buy	5.05	Ordinary	14,301	14,301
8-Aug-19	Vanguard Investments Australia Ltd.	Buy	5.06	Ordinary	11,902	11,902
9-Aug-19	Vanguard Investments Australia Ltd.	Buy	5.08	Ordinary	39,168	39,168
12-Aug-19	Vanguard Investments Australia Ltd.	Buy	5.04	Ordinary	11,946	11,946
14-Aug-19	Vanguard Investments Australia Ltd.	Buy	5.08	Ordinary	8,204	8,204
14-Aug-19	Vanguard Investments Australia Ltd.	Buy	5.08	Ordinary	31,387	31,387
15-Aug-19	Vanguard Investments Australia Ltd.	Buy	5.01	Ordinary	8,200	8,200
19-Aug-19	Vanguard Investments Australia Ltd.	Buy	5.00	Ordinary	31,303	31,303

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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
21-Aug-19	Vanguard Investments Australia Ltd.	Buy	4.98	Ordinary	6,159	6,159
22-Aug-19	Vanguard Investments Australia Ltd.	Buy	4.98	Ordinary	31,779	31,779
28-Aug-19	Vanguard Investments Australia Ltd.	Buy	4.34	Ordinary	23,530	23,530
28-Aug-19	Vanguard Investments Australia Ltd.	Buy	4.34	Ordinary	26,985	26,985
29-Aug-19	Vanguard Investments Australia Ltd.	Buy	4.40	Ordinary	6,183	6,183
30-Aug-19	Vanguard Investments Australia Ltd.	Buy	4.25	Ordinary	31,873	31,873
2-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.29	Ordinary	23,870	23,870
3-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.29	Ordinary	104,241	104,241
4-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.32	Ordinary	23,858	23,858
4-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.32	Ordinary	8,260	8,260
5-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.37	Ordinary	8,292	8,292
5-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.37	Ordinary	31,723	31,723
5-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.37	Ordinary	37,224	37,224
6-Sep-19	Vanguard Investments Australia Ltd.	Sell	4.42	Ordinary	(13,567)	(13,567)
9-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.44	Ordinary	8,292	8,292
17-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.77	Ordinary	21,520	21,520
17-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.77	Ordinary	20,482	20,482
19-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.82	Ordinary	6,222	6,222
20-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.89	Ordinary	10,770	10,770
23-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.91	Ordinary	16,125	16,125
25-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.85	Ordinary	15,078	15,078
27-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.87	Ordinary	14,476	14,476
27-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.87	Ordinary	8,272	8,272
27-Sep-19	Vanguard Investments Australia Ltd.	Buy	4.87	Ordinary	12,960	12,960
30-Sep-19	Vanguard Investments Australia Ltd.	Sell	4.83	Ordinary	(39,265)	(39,265)
2-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.72	Ordinary	36,899	36,899
2-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.68	Ordinary	20,292	20,292
2-Oct-19	Vanguard Investments Australia Ltd.	Sell	4.68	Ordinary	(25,632)	(25,632)
3-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.54	Ordinary	32,427	32,427
3-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.52	Ordinary	12,204	12,204
4-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.56	Ordinary	18,241	18,241
9-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.59	Ordinary	10,170	10,170
11-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.67	Ordinary	8,600	8,600
14-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.72	Ordinary	155,736	155,736
16-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.87	Ordinary	184,554	184,554
17-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.77	Ordinary	8,136	8,136
18-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.77	Ordinary	6,102	6,102
18-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.77	Ordinary	10,760	10,760
22-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.87	Ordinary	10,780	10,780
22-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.87	Ordinary	48,838	48,838
23-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.89	Ordinary	20,534	20,534
23-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.89	Ordinary	20,534	20,534
28-Oct-19	Vanguard Investments Australia Ltd.	Buy	4.97	Ordinary	10,760	10,760
30-Oct-19	Vanguard Investments Australia Ltd.	Buy	5.00	Ordinary	37,322	37,322
30-Oct-19	Vanguard Investments Australia Ltd.	Buy	5.00	Ordinary	6,102	6,102
30-Oct-19	Vanguard Investments Australia Ltd.	Buy	5.00	Ordinary	8,136	8,136
31-Oct-19	Vanguard Investments Australia Ltd.	Buy	5.03	Ordinary	12,972	12,972
31-Oct-19	Vanguard Investments Australia Ltd.	Buy	5.03	Ordinary	25,872	25,872
31-Oct-19	Vanguard Investments Australia Ltd.	Buy	5.04	Ordinary	34,303	34,303
31-Oct-19	Vanguard Investments Australia Ltd.	Sell	5.03	Ordinary	(12,936)	(12,936)
1-Nov-19	Vanguard Investments Australia Ltd.	Sell	4.95	Ordinary	(146,149)	(146,149)
1-Nov-19	Vanguard Investments Australia Ltd.	Buy	4.95	Ordinary	8,136	8,136
1-Nov-19	Vanguard Investments Australia Ltd.	Buy	4.95	Ordinary	6,102	6,102
1-Nov-19	Vanguard Investments Australia Ltd.	Buy	4.95	Ordinary	15,615	15,615
4-Nov-19	Vanguard Investments Australia Ltd.	Sell	5.00	Ordinary	(190,427)	(190,427)
4-Nov-19	Vanguard Investments Australia Ltd.	Buy	5.02	Ordinary	42,678	42,678
5-Nov-19	Vanguard Investments Australia Ltd.	Sell	5.09	Ordinary	(45,579)	(45,579)
5-Nov-19	Vanguard Investments Australia Ltd.	Buy	5.09	Ordinary	8,136	8,136
5-Nov-19	Vanguard Investments Australia Ltd.	Buy	5.09	Ordinary	12,972	12,972
7-Nov-19	Vanguard Investments Australia Ltd.	Buy	5.01	Ordinary	8,124	8,124
7-Nov-19	Vanguard Investments Australia Ltd.	Buy	5.01	Ordinary	14,288	14,288
11-Nov-19	Vanguard Investments Australia Ltd.	Sell	5.00	Ordinary	(13,054)	(13,054)
11-Nov-19	Vanguard Investments Australia Ltd.	Buy	5.00	Ordinary	26,116	26,116
12-Nov-19	Vanguard Investments Australia Ltd.	Sell	4.92	Ordinary	(5,000)	(5,000)
12-Nov-19	Vanguard Investments Australia Ltd.	Buy	4.92	Ordinary	6,123	6,123

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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
12-Nov-19	Vanguard Investments Australia Ltd.	Buy	4.92	Ordinary	11,979	11,979
13-Nov-19	Vanguard Investments Australia Ltd.	Buy	4.98	Ordinary	3,252	3,252
15-Nov-19	Vanguard Investments Australia Ltd.	Buy	5.02	Ordinary	8,180	8,180
19-Nov-19	Vanguard Investments Australia Ltd.	Buy	5.03	Ordinary	14,157	14,157
20-Nov-19	Vanguard Investments Australia Ltd.	Buy	4.92	Ordinary	7,623	7,623
21-Nov-19	Vanguard Investments Australia Ltd.	Buy	4.87	Ordinary	8,184	8,184
21-Nov-19	Vanguard Investments Australia Ltd.	Buy	4.87	Ordinary	22,911	22,911
22-Nov-19	Vanguard Investments Australia Ltd.	Buy	4.90	Ordinary	6,138	6,138
22-Nov-19	Vanguard Investments Australia Ltd.	Buy	4.90	Ordinary	17,815	17,815
25-Nov-19	Vanguard Investments Australia Ltd.	Buy	4.89	Ordinary	22,364	22,364
26-Nov-19	Vanguard Investments Australia Ltd.	Sell	4.90	Ordinary	(21,784)	(21,784)
27-Nov-19	Vanguard Investments Australia Ltd.	Buy	5.07	Ordinary	40,817	40,817
28-Nov-19	Vanguard Investments Australia Ltd.	Buy	5.14	Ordinary	6,138	6,138
29-Nov-19	Vanguard Investments Australia Ltd.	Buy	5.14	Ordinary	13,068	13,068
2-Dec-19	Vanguard Investments Australia Ltd.	Buy	5.12	Ordinary	57,397	57,397
3-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.98	Ordinary	12,276	12,276
4-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.84	Ordinary	10,230	10,230
4-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.84	Ordinary	23,936	23,936
6-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.61	Ordinary	350,987	350,987
6-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.61	Ordinary	24,518	24,518
9-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.57	Ordinary	8,184	8,184
9-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.57	Ordinary	13,056	13,056
11-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.56	Ordinary	20,735	20,735
11-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.56	Ordinary	25,101	25,101
13-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.50	Ordinary	8,184	8,184
13-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.50	Ordinary	10,990	10,990
16-Dec-19	Vanguard Investments Australia Ltd.	Sell	4.47	Ordinary	(56,306)	(56,306)
18-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.53	Ordinary	15,456	15,456
19-Dec-19	Vanguard Investments Australia Ltd.	Sell	4.49	Ordinary	(55,679)	(55,679)
20-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.48	Ordinary	14,601	14,601
20-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.48	Ordinary	8,176	8,176
20-Dec-19	Vanguard Investments Australia Ltd.	Sell	4.49	Ordinary	(201,381)	(201,381)
27-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.56	Ordinary	5,553	5,553
30-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.56	Ordinary	8,864	8,864
30-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.56	Ordinary	33,896	33,896
31-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.48	Ordinary	63,824	63,824
31-Dec-19	Vanguard Investments Australia Ltd.	Sell	4.48	Ordinary	(36,309)	(36,309)
31-Dec-19	Vanguard Investments Australia Ltd.	Buy	4.48	Ordinary	5,540	5,540
2-Jan-20	Vanguard Investments Australia Ltd.	Buy	4.50	Ordinary	7,340	7,340
2-Jan-20	Vanguard Investments Australia Ltd.	Buy	4.50	Ordinary	13,128	13,128
3-Jan-20	Vanguard Investments Australia Ltd.	Sell	4.52	Ordinary	(80,572)	(80,572)
7-Jan-20	Vanguard Investments Australia Ltd.	Buy	4.64	Ordinary	6,546	6,546
7-Jan-20	Vanguard Investments Australia Ltd.	Buy	4.64	Ordinary	80,723	80,723
8-Jan-20	Vanguard Investments Australia Ltd.	Buy	4.60	Ordinary	16,320	16,320
9-Jan-20	Vanguard Investments Australia Ltd.	Sell	4.77	Ordinary	(8,696)	(8,696)
13-Jan-20	Vanguard Investments Australia Ltd.	Buy	4.88	Ordinary	16,275	16,275
14-Jan-20	Vanguard Investments Australia Ltd.	Buy	4.85	Ordinary	31,360	31,360
15-Jan-20	Vanguard Investments Australia Ltd.	Sell	4.89	Ordinary	(24,172)	(24,172)
17-Jan-20	Vanguard Investments Australia Ltd.	Buy	4.91	Ordinary	5,502	5,502
21-Jan-20	Vanguard Investments Australia Ltd.	Sell	4.99	Ordinary	(26,439)	(26,439)
21-Jan-20	Vanguard Investments Australia Ltd.	Buy	4.99	Ordinary	16,170	16,170
23-Jan-20	Vanguard Investments Australia Ltd.	Buy	5.06	Ordinary	5,502	5,502
29-Jan-20	Vanguard Investments Australia Ltd.	Buy	4.99	Ordinary	7,336	7,336
30-Jan-20	Vanguard Investments Australia Ltd.	Buy	5.00	Ordinary	16,125	16,125
3-Feb-20	Vanguard Investments Australia Ltd.	Sell	4.90	Ordinary	(7,620)	(7,620)
7-Feb-20	Vanguard Investments Australia Ltd.	Buy	5.15	Ordinary	10,770	10,770
11-Feb-20	Vanguard Investments Australia Ltd.	Buy	4.74	Ordinary	21,580	21,580
11-Feb-20	Vanguard Investments Australia Ltd.	Buy	4.74	Ordinary	42,422	42,422
12-Feb-20	Vanguard Investments Australia Ltd.	Sell	4.75	Ordinary	(38,106)	(38,106)
13-Feb-20	Vanguard Investments Australia Ltd.	Sell	4.74	Ordinary	(9,170)	(9,170)
17-Feb-20	Vanguard Investments Australia Ltd.	Sell	4.76	Ordinary	(18,855)	(18,855)
17-Feb-20	Vanguard Investments Australia Ltd.	Sell	4.76	Ordinary	(21,186)	(21,186)
26-Feb-20	Vanguard Investments Australia Ltd.	Sell	4.66	Ordinary	(20,255)	(20,255)
26-Feb-20	Vanguard Investments Australia Ltd.	Buy	4.69	Ordinary	17,232	17,232
27-Feb-20	Vanguard Investments Australia Ltd.	Buy	4.67	Ordinary	81,993	81,993

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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
28-Feb-20	Vanguard Investments Australia Ltd.	Sell	4.52	Ordinary	(21,413)	(21,413)
28-Feb-20	Vanguard Investments Australia Ltd.	Buy	4.52	Ordinary	16,200	16,200
2-Mar-20	Vanguard Investments Australia Ltd.	Sell	4.45	Ordinary	(22,124)	(22,124)
3-Mar-20	Vanguard Investments Australia Ltd.	Buy	4.43	Ordinary	5,550	5,550
3-Mar-20	Vanguard Investments Australia Ltd.	Buy	4.43	Ordinary	29,241	29,241
4-Mar-20	Vanguard Investments Australia Ltd.	Buy	4.28	Ordinary	7,400	7,400
4-Mar-20	Vanguard Investments Australia Ltd.	Buy	4.28	Ordinary	18,428	18,428
5-Mar-20	Vanguard Investments Australia Ltd.	Buy	4.33	Ordinary	7,440	7,440
5-Mar-20	Vanguard Investments Australia Ltd.	Buy	4.33	Ordinary	23,365	23,365
9-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.85	Ordinary	9,305	9,305
9-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.85	Ordinary	11,166	11,166
9-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.85	Ordinary	38,150	38,150
9-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.85	Ordinary	46,326	46,326
10-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.86	Ordinary	57,820	57,820
11-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.60	Ordinary	16,749	16,749
11-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.60	Ordinary	11,166	11,166
11-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.60	Ordinary	21,820	21,820
11-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.60	Ordinary	27,275	27,275
12-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.28	Ordinary	7,444	7,444
12-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.28	Ordinary	18,632	18,632
12-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.28	Ordinary	32,880	32,880
12-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.28	Ordinary	117,207	117,207
13-Mar-20	Vanguard Investments Australia Ltd.	Sell	3.03	Ordinary	(23,091)	(23,091)
13-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.03	Ordinary	40,428	40,428
13-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.03	Ordinary	14,888	14,888
13-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.03	Ordinary	32,820	32,820
13-Mar-20	Vanguard Investments Australia Ltd.	Buy	3.03	Ordinary	71,101	71,101

This is Annexure A of 14 pages referred to in Form 604, Notice of change of interests of substantial holder.

Signature: 

Name: Shawn Acker

Capacity: Compliance Manager

Date: 18 March 2020