

Form 604Corporations Act 2001
Section 671B**Notice of change of interests of substantial holder**To Company Name/Scheme
ACN/ARSNCharter Hall Retail REIT
093 143 965**1. Details of substantial holder (1)**

Name Vanguard Group (The Vanguard Group, Inc. and its controlled entities including those listed in Annexure A)

ACN/ARSN (if applicable) N/A

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

20 November 2020

The previous notice was given to the company on

20 March 2019

The previous notice was dated

20 March 2019**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	32,631,572	8.070%	51,791,223	9.071%

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 – 227,556	227,556
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 – 1,653,953	1,653,953
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 – 36,512,929	36,512,929
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 – 5,750,718	5,750,718
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 – 7,646,067	7,646,067

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 25 November 2020

Annexure A

To Company	Charter Hall Retail REIT
ACN/ARSN	093 143 965
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
20-Mar-19	The Vanguard Group, Inc.	BUY	4.67	Ordinary	8,443	8,443
27-Mar-19	The Vanguard Group, Inc.	BUY	4.68	Ordinary	7,408	7,408
27-Mar-19	The Vanguard Group, Inc.	SELL	4.68	Ordinary	(2,830)	(2,830)
2-Apr-19	The Vanguard Group, Inc.	BUY	4.51	Ordinary	160,003	160,003
5-Apr-19	The Vanguard Group, Inc.	BUY	4.49	Ordinary	1,852	1,852
5-Apr-19	The Vanguard Group, Inc.	BUY	4.49	Ordinary	5,556	5,556
15-Apr-19	The Vanguard Group, Inc.	BUY	4.56	Ordinary	64,059	64,059
16-Apr-19	The Vanguard Group, Inc.	BUY	4.57	Ordinary	30,554	30,554
16-Apr-19	The Vanguard Group, Inc.	BUY	4.57	Ordinary	20,718	20,718
26-Apr-19	The Vanguard Group, Inc.	BUY	4.76	Ordinary	3,400	3,400
26-Apr-19	The Vanguard Group, Inc.	BUY	4.76	Ordinary	10,200	10,200
29-Apr-19	The Vanguard Group, Inc.	BUY	4.73	Ordinary	123,475	123,475
29-Apr-19	The Vanguard Group, Inc.	BUY	4.71	Ordinary	3,838	3,838
6-May-19	The Vanguard Group, Inc.	SELL	4.49	Ordinary	(3,444)	(3,444)
8-May-19	The Vanguard Group, Inc.	SELL	4.41	Ordinary	(3,444)	(3,444)
8-May-19	The Vanguard Group, Inc.	BUY	4.41	Ordinary	7,088	7,088
14-May-19	The Vanguard Group, Inc.	SELL	4.54	Ordinary	(3,444)	(3,444)
22-May-19	The Vanguard Group, Inc.	BUY	4.58	Ordinary	7,088	7,088
29-May-19	The Vanguard Group, Inc.	BUY	4.47	Ordinary	4,245	4,245
4-Jun-19	The Vanguard Group, Inc.	BUY	4.52	Ordinary	4,245	4,245
5-Jun-19	The Vanguard Group, Inc.	SELL	4.45	Ordinary	(4,592)	(4,592)
5-Jun-19	The Vanguard Group, Inc.	SELL	4.45	Ordinary	(2,296)	(2,296)
7-Jun-19	The Vanguard Group, Inc.	BUY	4.55	Ordinary	85,680	85,680
11-Jun-19	The Vanguard Group, Inc.	SELL	4.67	Ordinary	(2,870)	(2,870)
11-Jun-19	The Vanguard Group, Inc.	BUY	4.66	Ordinary	96,859	96,859
12-Jun-19	The Vanguard Group, Inc.	BUY	4.71	Ordinary	94,326	94,326
14-Jun-19	The Vanguard Group, Inc.	SELL	4.75	Ordinary	(1,722)	(1,722)
18-Jun-19	The Vanguard Group, Inc.	BUY	4.72	Ordinary	98,778	98,778
19-Jun-19	The Vanguard Group, Inc.	BUY	4.74	Ordinary	78,590	78,590
21-Jun-19	The Vanguard Group, Inc.	BUY	4.64	Ordinary	101,159	101,159
21-Jun-19	The Vanguard Group, Inc.	BUY	4.65	Ordinary	88,928	88,928
21-Jun-19	The Vanguard Group, Inc.	SELL	4.64	Ordinary	(144,725)	(144,725)
21-Jun-19	The Vanguard Group, Inc.	BUY	4.64	Ordinary	31,468	31,468
21-Jun-19	The Vanguard Group, Inc.	BUY	4.65	Ordinary	27,662	27,662
21-Jun-19	The Vanguard Group, Inc.	SELL	4.64	Ordinary	(3,628)	(3,628)
25-Jun-19	The Vanguard Group, Inc.	SELL	4.68	Ordinary	(1,722)	(1,722)
3-Jul-19	The Vanguard Group, Inc.	BUY	4.46	Ordinary	170,827	170,827
10-Jul-19	The Vanguard Group, Inc.	BUY	4.55	Ordinary	128,597	128,597
12-Jul-19	The Vanguard Group, Inc.	BUY	4.54	Ordinary	11,801	11,801
12-Jul-19	The Vanguard Group, Inc.	BUY	4.54	Ordinary	87,913	87,913
16-Jul-19	The Vanguard Group, Inc.	BUY	4.50	Ordinary	97,328	97,328
17-Jul-19	The Vanguard Group, Inc.	BUY	4.49	Ordinary	29,046	29,046
17-Jul-19	The Vanguard Group, Inc.	BUY	4.49	Ordinary	68,611	68,611
18-Jul-19	The Vanguard Group, Inc.	BUY	4.50	Ordinary	89,989	89,989
18-Jul-19	The Vanguard Group, Inc.	SELL	4.52	Ordinary	(16,596)	(16,596)
18-Jul-19	The Vanguard Group, Inc.	SELL	4.52	Ordinary	(11,064)	(11,064)
18-Jul-19	The Vanguard Group, Inc.	SELL	4.52	Ordinary	(3,688)	(3,688)
19-Jul-19	The Vanguard Group, Inc.	SELL	4.50	Ordinary	(22,128)	(22,128)
22-Jul-19	The Vanguard Group, Inc.	SELL	4.47	Ordinary	(7,376)	(7,376)
22-Jul-19	The Vanguard Group, Inc.	SELL	4.47	Ordinary	(11,064)	(11,064)
25-Jul-19	The Vanguard Group, Inc.	SELL	4.51	Ordinary	(9,220)	(9,220)
29-Jul-19	The Vanguard Group, Inc.	SELL	4.44	Ordinary	(3,688)	(3,688)
30-Jul-19	The Vanguard Group, Inc.	SELL	4.50	Ordinary	(2,296)	(2,296)

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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
5-Aug-19	The Vanguard Group, Inc.	SELL	4.63	Ordinary	(5,532)	(5,532)
5-Aug-19	The Vanguard Group, Inc.	SELL	4.63	Ordinary	(3,000)	(3,000)
5-Aug-19	The Vanguard Group, Inc.	SELL	4.63	Ordinary	(3,000)	(3,000)
7-Aug-19	The Vanguard Group, Inc.	SELL	4.60	Ordinary	(138,090)	(138,090)
8-Aug-19	The Vanguard Group, Inc.	SELL	4.67	Ordinary	(2,870)	(2,870)
8-Aug-19	The Vanguard Group, Inc.	SELL	4.63	Ordinary	(52,965)	(52,965)
13-Aug-19	The Vanguard Group, Inc.	SELL	4.71	Ordinary	(4,018)	(4,018)
15-Aug-19	The Vanguard Group, Inc.	SELL	4.60	Ordinary	(3,444)	(3,444)
19-Aug-19	The Vanguard Group, Inc.	SELL	4.44	Ordinary	(1,000)	(1,000)
20-Aug-19	The Vanguard Group, Inc.	SELL	4.34	Ordinary	(10,100)	(10,100)
27-Aug-19	The Vanguard Group, Inc.	BUY	4.28	Ordinary	16,619	16,619
4-Sep-19	The Vanguard Group, Inc.	SELL	4.31	Ordinary	(1,000)	(1,000)
5-Sep-19	The Vanguard Group, Inc.	BUY	4.25	Ordinary	16,160	16,160
5-Sep-19	The Vanguard Group, Inc.	BUY	4.25	Ordinary	20,200	20,200
6-Sep-19	The Vanguard Group, Inc.	BUY	4.28	Ordinary	8,080	8,080
16-Sep-19	The Vanguard Group, Inc.	BUY	4.26	Ordinary	1,722	1,722
17-Sep-19	The Vanguard Group, Inc.	SELL	4.25	Ordinary	(6,060)	(6,060)
18-Sep-19	The Vanguard Group, Inc.	SELL	4.23	Ordinary	(2,020)	(2,020)
18-Sep-19	The Vanguard Group, Inc.	SELL	4.23	Ordinary	(12,120)	(12,120)
18-Sep-19	The Vanguard Group, Inc.	SELL	4.23	Ordinary	(2,000)	(2,000)
20-Sep-19	The Vanguard Group, Inc.	BUY	4.28	Ordinary	8,664	8,664
20-Sep-19	The Vanguard Group, Inc.	BUY	4.28	Ordinary	40,044	40,044
1-Oct-19	The Vanguard Group, Inc.	BUY	4.32	Ordinary	34,580	34,580
2-Oct-19	The Vanguard Group, Inc.	BUY	4.32	Ordinary	6,096	6,096
21-Oct-19	The Vanguard Group, Inc.	BUY	4.42	Ordinary	6,096	6,096
25-Oct-19	The Vanguard Group, Inc.	SELL	4.43	Ordinary	(6,888)	(6,888)
25-Oct-19	The Vanguard Group, Inc.	BUY	4.43	Ordinary	8,264	8,264
29-Oct-19	The Vanguard Group, Inc.	SELL	4.40	Ordinary	(1,540)	(1,540)
1-Nov-19	The Vanguard Group, Inc.	BUY	4.44	Ordinary	194	194
7-Nov-19	The Vanguard Group, Inc.	BUY	4.38	Ordinary	8,128	8,128
14-Nov-19	The Vanguard Group, Inc.	BUY	4.42	Ordinary	4,064	4,064
18-Nov-19	The Vanguard Group, Inc.	BUY	4.48	Ordinary	2,495	2,495
4-Dec-19	The Vanguard Group, Inc.	BUY	4.46	Ordinary	13,043	13,043
5-Dec-19	The Vanguard Group, Inc.	SELL	4.49	Ordinary	(31,557)	(31,557)
11-Dec-19	The Vanguard Group, Inc.	BUY	4.58	Ordinary	701	701
17-Dec-19	The Vanguard Group, Inc.	SELL	4.48	Ordinary	(113,957)	(113,957)
20-Dec-19	The Vanguard Group, Inc.	BUY	4.38	Ordinary	29,352	29,352
20-Dec-19	The Vanguard Group, Inc.	SELL	4.38	Ordinary	(12,184)	(12,184)
20-Dec-19	The Vanguard Group, Inc.	SELL	4.38	Ordinary	(31,863)	(31,863)
23-Dec-19	The Vanguard Group, Inc.	BUY	4.41	Ordinary	5,268	5,268
24-Dec-19	The Vanguard Group, Inc.	BUY	4.40	Ordinary	10,536	10,536
27-Dec-19	The Vanguard Group, Inc.	BUY	4.42	Ordinary	50,223	50,223
27-Dec-19	The Vanguard Group, Inc.	BUY	4.43	Ordinary	7,120	7,120
2-Jan-20	The Vanguard Group, Inc.	BUY	4.30	Ordinary	5,343	5,343
3-Jan-20	The Vanguard Group, Inc.	BUY	4.33	Ordinary	66,148	66,148
7-Jan-20	The Vanguard Group, Inc.	BUY	4.36	Ordinary	7,112	7,112
9-Jan-20	The Vanguard Group, Inc.	SELL	4.39	Ordinary	(7,112)	(7,112)
9-Jan-20	The Vanguard Group, Inc.	SELL	4.39	Ordinary	(24,892)	(24,892)
22-Jan-20	The Vanguard Group, Inc.	BUY	4.64	Ordinary	127,768	127,768
28-Jan-20	The Vanguard Group, Inc.	BUY	4.71	Ordinary	3,494	3,494
29-Jan-20	The Vanguard Group, Inc.	BUY	4.76	Ordinary	5,448	5,448
21-Feb-20	The Vanguard Group, Inc.	BUY	4.91	Ordinary	137,109	137,109
21-Feb-20	The Vanguard Group, Inc.	BUY	4.81	Ordinary	137,107	137,107
24-Feb-20	The Vanguard Group, Inc.	SELL	4.87	Ordinary	(2,385)	(2,385)
25-Feb-20	The Vanguard Group, Inc.	SELL	4.83	Ordinary	(954)	(954)
27-Feb-20	The Vanguard Group, Inc.	SELL	4.77	Ordinary	(8,905)	(8,905)
28-Feb-20	The Vanguard Group, Inc.	SELL	4.75	Ordinary	(3,562)	(3,562)
4-Mar-20	The Vanguard Group, Inc.	SELL	4.88	Ordinary	(5,343)	(5,343)
4-Mar-20	The Vanguard Group, Inc.	SELL	4.72	Ordinary	(6,389)	(6,389)
6-Mar-20	The Vanguard Group, Inc.	BUY	4.91	Ordinary	3,562	3,562

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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
9-Mar-20	The Vanguard Group, Inc.	BUY	4.79	Ordinary	7,124	7,124
10-Mar-20	The Vanguard Group, Inc.	BUY	4.83	Ordinary	3,562	3,562
10-Mar-20	The Vanguard Group, Inc.	BUY	4.83	Ordinary	3,922	3,922
13-Mar-20	The Vanguard Group, Inc.	BUY	4.45	Ordinary	7,844	7,844
16-Mar-20	The Vanguard Group, Inc.	SELL	3.85	Ordinary	(1,431)	(1,431)
16-Mar-20	The Vanguard Group, Inc.	SELL	3.85	Ordinary	(7,124)	(7,124)
17-Mar-20	The Vanguard Group, Inc.	SELL	3.87	Ordinary	(1,908)	(1,908)
17-Mar-20	The Vanguard Group, Inc.	BUY	3.86	Ordinary	149,434	149,434
17-Mar-20	The Vanguard Group, Inc.	SELL	3.87	Ordinary	(5,343)	(5,343)
18-Mar-20	The Vanguard Group, Inc.	BUY	3.66	Ordinary	167,533	167,533
18-Mar-20	The Vanguard Group, Inc.	BUY	3.45	Ordinary	5,883	5,883
19-Mar-20	The Vanguard Group, Inc.	BUY	3.52	Ordinary	277,460	277,460
19-Mar-20	The Vanguard Group, Inc.	BUY	3.52	Ordinary	6,693	6,693
20-Mar-20	The Vanguard Group, Inc.	SELL	3.11	Ordinary	(2,385)	(2,385)
20-Mar-20	The Vanguard Group, Inc.	SELL	3.11	Ordinary	(5,343)	(5,343)
20-Mar-20	The Vanguard Group, Inc.	BUY	3.18	Ordinary	10,217	10,217
23-Mar-20	The Vanguard Group, Inc.	SELL	2.83	Ordinary	(1,908)	(1,908)
24-Mar-20	The Vanguard Group, Inc.	BUY	2.96	Ordinary	6,048	6,048
24-Mar-20	The Vanguard Group, Inc.	BUY	3.04	Ordinary	6,219	6,219
24-Mar-20	The Vanguard Group, Inc.	BUY	3.04	Ordinary	10,365	10,365
25-Mar-20	The Vanguard Group, Inc.	BUY	3.20	Ordinary	179,317	179,317
26-Mar-20	The Vanguard Group, Inc.	SELL	3.58	Ordinary	(1,698)	(1,698)
26-Mar-20	The Vanguard Group, Inc.	BUY	3.50	Ordinary	87,064	87,064
27-Mar-20	The Vanguard Group, Inc.	BUY	2.96	Ordinary	6,089	6,089
27-Mar-20	The Vanguard Group, Inc.	BUY	2.93	Ordinary	8,292	8,292
31-Mar-20	The Vanguard Group, Inc.	BUY	3.10	Ordinary	1,781	1,781
31-Mar-20	The Vanguard Group, Inc.	BUY	3.10	Ordinary	8,905	8,905
9-Apr-20	The Vanguard Group, Inc.	SELL	3.22	Ordinary	(165,420)	(165,420)
13-Apr-20	The Vanguard Group, Inc.	BUY	3.24	Ordinary	5,361	5,361
14-Apr-20	The Vanguard Group, Inc.	BUY	3.25	Ordinary	16,425	16,425
14-Apr-20	The Vanguard Group, Inc.	BUY	3.25	Ordinary	3,650	3,650
16-Apr-20	The Vanguard Group, Inc.	SELL	3.19	Ordinary	(205,510)	(205,510)
17-Apr-20	The Vanguard Group, Inc.	SELL	3.39	Ordinary	(9,252)	(9,252)
22-Apr-20	The Vanguard Group, Inc.	SELL	3.20	Ordinary	(7,299)	(7,299)
22-Apr-20	The Vanguard Group, Inc.	SELL	3.18	Ordinary	(19,124)	(19,124)
27-Apr-20	The Vanguard Group, Inc.	SELL	3.21	Ordinary	(3,650)	(3,650)
28-Apr-20	The Vanguard Group, Inc.	BUY	2.90	Ordinary	10,608	10,608
28-Apr-20	The Vanguard Group, Inc.	BUY	2.90	Ordinary	41,645	41,645
28-Apr-20	The Vanguard Group, Inc.	BUY	2.90	Ordinary	407,721	407,721
28-Apr-20	The Vanguard Group, Inc.	BUY	2.90	Ordinary	5,422	5,422
28-Apr-20	The Vanguard Group, Inc.	BUY	2.90	Ordinary	28,933	28,933
28-Apr-20	The Vanguard Group, Inc.	BUY	2.90	Ordinary	4,472	4,472
29-Apr-20	The Vanguard Group, Inc.	SELL	3.00	Ordinary	(3,650)	(3,650)
30-Apr-20	The Vanguard Group, Inc.	SELL	3.16	Ordinary	(7,300)	(7,300)
30-Apr-20	The Vanguard Group, Inc.	SELL	3.16	Ordinary	(3,650)	(3,650)
1-May-20	The Vanguard Group, Inc.	SELL	3.02	Ordinary	(1,920)	(1,920)
4-May-20	The Vanguard Group, Inc.	SELL	3.10	Ordinary	(9,125)	(9,125)
5-May-20	The Vanguard Group, Inc.	BUY	3.08	Ordinary	94,458	94,458
5-May-20	The Vanguard Group, Inc.	SELL	3.09	Ordinary	(9,125)	(9,125)
6-May-20	The Vanguard Group, Inc.	BUY	3.09	Ordinary	40,482	40,482
6-May-20	The Vanguard Group, Inc.	SELL	3.10	Ordinary	(7,299)	(7,299)
7-May-20	The Vanguard Group, Inc.	SELL	3.01	Ordinary	(6,507)	(6,507)
8-May-20	The Vanguard Group, Inc.	SELL	3.07	Ordinary	(3,360)	(3,360)
12-May-20	The Vanguard Group, Inc.	SELL	3.12	Ordinary	(13,044)	(13,044)
12-May-20	The Vanguard Group, Inc.	SELL	3.12	Ordinary	(6,522)	(6,522)
13-May-20	The Vanguard Group, Inc.	BUY	3.03	Ordinary	8,420	8,420
22-May-20	The Vanguard Group, Inc.	SELL	3.04	Ordinary	(14,964)	(14,964)
28-May-20	The Vanguard Group, Inc.	BUY	3.34	Ordinary	5,760	5,760
1-Jun-20	The Vanguard Group, Inc.	BUY	3.24	Ordinary	2,400	2,400
2-Jun-20	The Vanguard Group, Inc.	BUY	3.22	Ordinary	7,200	7,200

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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
4-Jun-20	The Vanguard Group, Inc.	BUY	3.38	Ordinary	2,400	2,400
8-Jun-20	The Vanguard Group, Inc.	SELL	3.41	Ordinary	(25,506)	(25,506)
11-Jun-20	The Vanguard Group, Inc.	BUY	3.31	Ordinary	2,400	2,400
11-Jun-20	The Vanguard Group, Inc.	SELL	3.43	Ordinary	(158,872)	(158,872)
11-Jun-20	The Vanguard Group, Inc.	SELL	3.31	Ordinary	(11,336)	(11,336)
16-Jun-20	The Vanguard Group, Inc.	SELL	3.45	Ordinary	(4,516)	(4,516)
19-Jun-20	The Vanguard Group, Inc.	BUY	3.57	Ordinary	126,135	126,135
19-Jun-20	The Vanguard Group, Inc.	BUY	3.57	Ordinary	679,406	679,406
19-Jun-20	The Vanguard Group, Inc.	BUY	3.57	Ordinary	42,656	42,656
19-Jun-20	The Vanguard Group, Inc.	BUY	3.57	Ordinary	158,892	158,892
19-Jun-20	The Vanguard Group, Inc.	SELL	3.55	Ordinary	(6,780)	(6,780)
19-Jun-20	The Vanguard Group, Inc.	BUY	3.57	Ordinary	292,821	292,821
19-Jun-20	The Vanguard Group, Inc.	BUY	3.57	Ordinary	3,112	3,112
19-Jun-20	The Vanguard Group, Inc.	BUY	3.57	Ordinary	11,175	11,175
25-Jun-20	The Vanguard Group, Inc.	SELL	3.47	Ordinary	(9,840)	(9,840)
26-Jun-20	The Vanguard Group, Inc.	SELL	3.43	Ordinary	(7,380)	(7,380)
30-Jun-20	The Vanguard Group, Inc.	BUY	3.42	Ordinary	15,423	15,423
30-Jun-20	The Vanguard Group, Inc.	BUY	3.42	Ordinary	64,804	64,804
15-Jul-20	The Vanguard Group, Inc.	SELL	3.23	Ordinary	(6,600)	(6,600)
15-Jul-20	The Vanguard Group, Inc.	SELL	3.23	Ordinary	(2,200)	(2,200)
21-Jul-20	The Vanguard Group, Inc.	BUY	3.20	Ordinary	7,091	7,091
23-Jul-20	The Vanguard Group, Inc.	SELL	3.18	Ordinary	(7,380)	(7,380)
27-Jul-20	The Vanguard Group, Inc.	SELL	3.22	Ordinary	(13,048)	(13,048)
3-Aug-20	The Vanguard Group, Inc.	SELL	3.23	Ordinary	(7,380)	(7,380)
5-Aug-20	The Vanguard Group, Inc.	BUY	3.23	Ordinary	17,085	17,085
6-Aug-20	The Vanguard Group, Inc.	SELL	3.14	Ordinary	(7,380)	(7,380)
10-Aug-20	The Vanguard Group, Inc.	SELL	3.14	Ordinary	(9,840)	(9,840)
12-Aug-20	The Vanguard Group, Inc.	SELL	3.38	Ordinary	(7,380)	(7,380)
13-Aug-20	The Vanguard Group, Inc.	SELL	3.30	Ordinary	(2,200)	(2,200)
18-Aug-20	The Vanguard Group, Inc.	SELL	3.29	Ordinary	(18,946)	(18,946)
18-Aug-20	The Vanguard Group, Inc.	BUY	3.29	Ordinary	18,946	18,946
21-Aug-20	The Vanguard Group, Inc.	SELL	3.34	Ordinary	(4,237)	(4,237)
26-Aug-20	The Vanguard Group, Inc.	SELL	3.29	Ordinary	(10,660)	(10,660)
3-Sep-20	The Vanguard Group, Inc.	BUY	3.41	Ordinary	50,000	50,000
3-Sep-20	The Vanguard Group, Inc.	BUY	3.41	Ordinary	132,053	132,053
4-Sep-20	The Vanguard Group, Inc.	BUY	3.30	Ordinary	549	549
8-Sep-20	The Vanguard Group, Inc.	SELL	3.34	Ordinary	(9,840)	(9,840)
9-Sep-20	The Vanguard Group, Inc.	SELL	3.37	Ordinary	(7,380)	(7,380)
10-Sep-20	The Vanguard Group, Inc.	SELL	3.30	Ordinary	(7,380)	(7,380)
10-Sep-20	The Vanguard Group, Inc.	BUY	3.30	Ordinary	4,920	4,920
16-Sep-20	The Vanguard Group, Inc.	SELL	3.51	Ordinary	(4,920)	(4,920)
16-Sep-20	The Vanguard Group, Inc.	SELL	3.51	Ordinary	(9,840)	(9,840)
17-Sep-20	The Vanguard Group, Inc.	BUY	3.53	Ordinary	613	613
18-Sep-20	The Vanguard Group, Inc.	SELL	3.50	Ordinary	(4,920)	(4,920)
18-Sep-20	The Vanguard Group, Inc.	BUY	3.51	Ordinary	6,054	6,054
18-Sep-20	The Vanguard Group, Inc.	BUY	3.51	Ordinary	924	924
21-Sep-20	The Vanguard Group, Inc.	BUY	3.44	Ordinary	5,713	5,713
21-Sep-20	The Vanguard Group, Inc.	BUY	3.44	Ordinary	1,013	1,013
21-Sep-20	The Vanguard Group, Inc.	BUY	3.44	Ordinary	783	783
23-Sep-20	The Vanguard Group, Inc.	SELL	3.44	Ordinary	(7,446)	(7,446)
23-Sep-20	The Vanguard Group, Inc.	SELL	3.44	Ordinary	(4,964)	(4,964)
23-Sep-20	The Vanguard Group, Inc.	SELL	3.44	Ordinary	(7,446)	(7,446)
25-Sep-20	The Vanguard Group, Inc.	SELL	3.53	Ordinary	(12,410)	(12,410)
25-Sep-20	The Vanguard Group, Inc.	SELL	3.53	Ordinary	(9,928)	(9,928)
25-Sep-20	The Vanguard Group, Inc.	SELL	3.53	Ordinary	(19,392)	(19,392)
25-Sep-20	The Vanguard Group, Inc.	SELL	3.53	Ordinary	(16,160)	(16,160)
28-Sep-20	The Vanguard Group, Inc.	BUY	3.53	Ordinary	218,861	218,861
28-Sep-20	The Vanguard Group, Inc.	SELL	3.56	Ordinary	(4,964)	(4,964)
6-Oct-20	The Vanguard Group, Inc.	SELL	3.54	Ordinary	(32,320)	(32,320)
7-Oct-20	The Vanguard Group, Inc.	SELL	3.64	Ordinary	(29,088)	(29,088)

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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
8-Oct-20	The Vanguard Group, Inc.	SELL	3.58	Ordinary	(16,160)	(16,160)
20-Oct-20	The Vanguard Group, Inc.	SELL	3.59	Ordinary	(6,464)	(6,464)
29-Oct-20	The Vanguard Group, Inc.	SELL	3.43	Ordinary	(7,446)	(7,446)
30-Oct-20	The Vanguard Group, Inc.	BUY	3.44	Ordinary	22,294	22,294
2-Nov-20	The Vanguard Group, Inc.	SELL	3.50	Ordinary	(12,410)	(12,410)
2-Nov-20	The Vanguard Group, Inc.	SELL	3.50	Ordinary	(9,928)	(9,928)
10-Nov-20	The Vanguard Group, Inc.	SELL	3.84	Ordinary	(4,964)	(4,964)
10-Nov-20	The Vanguard Group, Inc.	SELL	3.84	Ordinary	(9,928)	(9,928)
11-Nov-20	The Vanguard Group, Inc.	SELL	3.96	Ordinary	(7,446)	(7,446)
12-Nov-20	The Vanguard Group, Inc.	SELL	3.86	Ordinary	(180,836)	(180,836)
12-Nov-20	The Vanguard Group, Inc.	SELL	3.86	Ordinary	(4,964)	(4,964)
12-Nov-20	The Vanguard Group, Inc.	BUY	3.86	Ordinary	180,836	180,836
13-Nov-20	The Vanguard Group, Inc.	SELL	3.82	Ordinary	(6,464)	(6,464)
17-Nov-20	The Vanguard Group, Inc.	BUY	3.89	Ordinary	21,235	21,235
19-Mar-19	Vanguard Investments Australia Ltd.	BUY	4.69	Ordinary	14,127	14,127
22-Mar-19	Vanguard Investments Australia Ltd.	SELL	4.67	Ordinary	(7,517)	(7,517)
22-Mar-19	Vanguard Investments Australia Ltd.	BUY	4.67	Ordinary	30,010	30,010
29-Mar-19	Vanguard Investments Australia Ltd.	SELL	4.66	Ordinary	(114,991)	(114,991)
2-Apr-19	Vanguard Investments Australia Ltd.	BUY	4.51	Ordinary	1,149,293	1,149,293
2-Apr-19	Vanguard Investments Australia Ltd.	BUY	4.51	Ordinary	3,115	3,115
4-Apr-19	Vanguard Investments Australia Ltd.	BUY	4.50	Ordinary	4,689	4,689
5-Apr-19	Vanguard Investments Australia Ltd.	BUY	4.48	Ordinary	14,067	14,067
8-Apr-19	Vanguard Investments Australia Ltd.	BUY	4.55	Ordinary	4,689	4,689
8-Apr-19	Vanguard Investments Australia Ltd.	BUY	4.55	Ordinary	4,208	4,208
9-Apr-19	Vanguard Investments Australia Ltd.	BUY	4.52	Ordinary	80,558	80,558
10-Apr-19	Vanguard Investments Australia Ltd.	BUY	4.54	Ordinary	5,083	5,083
15-Apr-19	Vanguard Investments Australia Ltd.	SELL	4.56	Ordinary	(4,479)	(4,479)
15-Apr-19	Vanguard Investments Australia Ltd.	BUY	4.56	Ordinary	10,162	10,162
29-Apr-19	Vanguard Investments Australia Ltd.	BUY	4.71	Ordinary	10,162	10,162
29-Apr-19	Vanguard Investments Australia Ltd.	BUY	4.71	Ordinary	15,243	15,243
30-Apr-19	Vanguard Investments Australia Ltd.	SELL	4.65	Ordinary	(6,270)	(6,270)
30-Apr-19	Vanguard Investments Australia Ltd.	BUY	4.65	Ordinary	5,880	5,880
1-May-19	Vanguard Investments Australia Ltd.	BUY	4.68	Ordinary	3,012	3,012
1-May-19	Vanguard Investments Australia Ltd.	BUY	4.67	Ordinary	38,127	38,127
2-May-19	Vanguard Investments Australia Ltd.	SELL	4.62	Ordinary	(19,300)	(19,300)
3-May-19	Vanguard Investments Australia Ltd.	SELL	4.54	Ordinary	(6,258)	(6,258)
3-May-19	Vanguard Investments Australia Ltd.	SELL	4.60	Ordinary	(41,432)	(41,432)
3-May-19	Vanguard Investments Australia Ltd.	SELL	4.55	Ordinary	(45,037)	(45,037)
6-May-19	Vanguard Investments Australia Ltd.	BUY	4.49	Ordinary	20,203	20,203
7-May-19	Vanguard Investments Australia Ltd.	SELL	4.46	Ordinary	(68,711)	(68,711)
9-May-19	Vanguard Investments Australia Ltd.	BUY	4.45	Ordinary	15,243	15,243
10-May-19	Vanguard Investments Australia Ltd.	BUY	4.49	Ordinary	60,516	60,516
10-May-19	Vanguard Investments Australia Ltd.	BUY	4.49	Ordinary	4,167	4,167
14-May-19	Vanguard Investments Australia Ltd.	BUY	4.53	Ordinary	10,086	10,086
16-May-19	Vanguard Investments Australia Ltd.	BUY	4.52	Ordinary	35,255	35,255
17-May-19	Vanguard Investments Australia Ltd.	BUY	4.54	Ordinary	4,540	4,540
21-May-19	Vanguard Investments Australia Ltd.	BUY	4.59	Ordinary	4,900	4,900
22-May-19	Vanguard Investments Australia Ltd.	BUY	4.56	Ordinary	28,885	28,885
22-May-19	Vanguard Investments Australia Ltd.	BUY	4.58	Ordinary	20,172	20,172
23-May-19	Vanguard Investments Australia Ltd.	BUY	4.59	Ordinary	20,131	20,131
24-May-19	Vanguard Investments Australia Ltd.	BUY	4.57	Ordinary	10,084	10,084
27-May-19	Vanguard Investments Australia Ltd.	SELL	4.55	Ordinary	(9,142)	(9,142)
28-May-19	Vanguard Investments Australia Ltd.	BUY	4.55	Ordinary	5,640	5,640
29-May-19	Vanguard Investments Australia Ltd.	BUY	4.48	Ordinary	15,120	15,120
29-May-19	Vanguard Investments Australia Ltd.	BUY	4.48	Ordinary	3,126	3,126
30-May-19	Vanguard Investments Australia Ltd.	BUY	4.44	Ordinary	10,018	10,018
30-May-19	Vanguard Investments Australia Ltd.	SELL	4.44	Ordinary	(53,644)	(53,644)
4-Jun-19	Vanguard Investments Australia Ltd.	BUY	4.50	Ordinary	5,640	5,640
6-Jun-19	Vanguard Investments Australia Ltd.	BUY	4.50	Ordinary	10,018	10,018
6-Jun-19	Vanguard Investments Australia Ltd.	SELL	4.50	Ordinary	(24,846)	(24,846)

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6-Jun-19	Vanguard Investments Australia Ltd.	BUY	4.50	Ordinary	6,336	6,336
11-Jun-19	Vanguard Investments Australia Ltd.	BUY	4.67	Ordinary	20,036	20,036
14-Jun-19	Vanguard Investments Australia Ltd.	BUY	4.75	Ordinary	15,027	15,027
17-Jun-19	Vanguard Investments Australia Ltd.	BUY	4.67	Ordinary	3,124	3,124
17-Jun-19	Vanguard Investments Australia Ltd.	BUY	4.67	Ordinary	3,728	3,728
20-Jun-19	Vanguard Investments Australia Ltd.	SELL	4.71	Ordinary	(7,746)	(7,746)
20-Jun-19	Vanguard Investments Australia Ltd.	BUY	4.68	Ordinary	15,027	15,027
21-Jun-19	Vanguard Investments Australia Ltd.	BUY	4.64	Ordinary	16,283	16,283
21-Jun-19	Vanguard Investments Australia Ltd.	BUY	4.65	Ordinary	14,315	14,315
21-Jun-19	Vanguard Investments Australia Ltd.	BUY	4.64	Ordinary	20,036	20,036
21-Jun-19	Vanguard Investments Australia Ltd.	BUY	4.64	Ordinary	3,006	3,006
25-Jun-19	Vanguard Investments Australia Ltd.	SELL	4.69	Ordinary	(29,928)	(29,928)
25-Jun-19	Vanguard Investments Australia Ltd.	BUY	4.69	Ordinary	3,142	3,142
27-Jun-19	Vanguard Investments Australia Ltd.	BUY	4.45	Ordinary	20,324	20,324
27-Jun-19	Vanguard Investments Australia Ltd.	BUY	4.45	Ordinary	3,759	3,759
28-Jun-19	Vanguard Investments Australia Ltd.	SELL	4.38	Ordinary	(157,799)	(157,799)
28-Jun-19	Vanguard Investments Australia Ltd.	SELL	4.37	Ordinary	(8,467)	(8,467)
1-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.39	Ordinary	9,890	9,890
2-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.39	Ordinary	6,408	6,408
3-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.46	Ordinary	19,764	19,764
5-Jul-19	Vanguard Investments Australia Ltd.	SELL	4.59	Ordinary	(8,270)	(8,270)
8-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.50	Ordinary	3,204	3,204
9-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.50	Ordinary	3,204	3,204
11-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.60	Ordinary	19,700	19,700
11-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.60	Ordinary	3,192	3,192
15-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.46	Ordinary	14,775	14,775
16-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.50	Ordinary	6,252	6,252
17-Jul-19	Vanguard Investments Australia Ltd.	SELL	4.49	Ordinary	(10,393)	(10,393)
17-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.49	Ordinary	9,850	9,850
18-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.51	Ordinary	4,635	4,635
22-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.47	Ordinary	9,850	9,850
22-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.47	Ordinary	14,775	14,775
25-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.52	Ordinary	14,775	14,775
25-Jul-19	Vanguard Investments Australia Ltd.	SELL	4.53	Ordinary	(21,576)	(21,576)
25-Jul-19	Vanguard Investments Australia Ltd.	SELL	4.52	Ordinary	(61,390)	(61,390)
29-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.44	Ordinary	9,850	9,850
30-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.50	Ordinary	22,523	22,523
30-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.50	Ordinary	5,841	5,841
31-Jul-19	Vanguard Investments Australia Ltd.	BUY	4.52	Ordinary	9,850	9,850
1-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.57	Ordinary	36,286	36,286
2-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.69	Ordinary	9,838	9,838
5-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.66	Ordinary	3,086	3,086
6-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.63	Ordinary	9,838	9,838
6-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.63	Ordinary	21,460	21,460
6-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.63	Ordinary	4,842	4,842
6-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.63	Ordinary	4,842	4,842
7-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.63	Ordinary	31,831	31,831
7-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.63	Ordinary	33,651	33,651
8-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.65	Ordinary	14,757	14,757
8-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.65	Ordinary	5,786	5,786
9-Aug-19	Vanguard Investments Australia Ltd.	SELL	4.69	Ordinary	(6,655)	(6,655)
9-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.69	Ordinary	14,757	14,757
9-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.69	Ordinary	7,825	7,825
12-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.71	Ordinary	5,808	5,808
14-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.66	Ordinary	9,882	9,882
19-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.43	Ordinary	9,874	9,874
21-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.30	Ordinary	14,811	14,811
22-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.29	Ordinary	36,805	36,805
27-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.28	Ordinary	142,261	142,261
27-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.28	Ordinary	9,551	9,551

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27-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.28	Ordinary	40,754	40,754
28-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.31	Ordinary	7,177	7,177
28-Aug-19	Vanguard Investments Australia Ltd.	BUY	4.31	Ordinary	225,299	225,299
29-Aug-19	Vanguard Investments Australia Ltd.	SELL	4.30	Ordinary	(6,924)	(6,924)
2-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.36	Ordinary	14,811	14,811
2-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.36	Ordinary	3,464	3,464
2-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.36	Ordinary	11,198	11,198
3-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.35	Ordinary	42,548	42,548
5-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.24	Ordinary	14,799	14,799
9-Sep-19	Vanguard Investments Australia Ltd.	SELL	4.29	Ordinary	(7,033)	(7,033)
10-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.27	Ordinary	19,732	19,732
10-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.27	Ordinary	5,217	5,217
13-Sep-19	Vanguard Investments Australia Ltd.	SELL	4.29	Ordinary	(10,165)	(10,165)
13-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.29	Ordinary	14,796	14,796
16-Sep-19	Vanguard Investments Australia Ltd.	SELL	4.26	Ordinary	(6,869)	(6,869)
17-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.25	Ordinary	24,551	24,551
17-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.25	Ordinary	14,796	14,796
17-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.25	Ordinary	9,063	9,063
20-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.28	Ordinary	4,820	4,820
23-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.29	Ordinary	14,730	14,730
23-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.29	Ordinary	8,070	8,070
24-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.28	Ordinary	9,820	9,820
24-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.28	Ordinary	44,171	44,171
25-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.30	Ordinary	7,560	7,560
26-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.25	Ordinary	14,736	14,736
27-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.26	Ordinary	5,220	5,220
27-Sep-19	Vanguard Investments Australia Ltd.	BUY	4.26	Ordinary	6,660	6,660
2-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.34	Ordinary	24,445	24,445
2-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.34	Ordinary	10,545	10,545
2-Oct-19	Vanguard Investments Australia Ltd.	SELL	4.34	Ordinary	(13,320)	(13,320)
4-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.29	Ordinary	9,401	9,401
7-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.33	Ordinary	37,410	37,410
9-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.34	Ordinary	24,415	24,415
11-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.32	Ordinary	6,952	6,952
11-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.32	Ordinary	6,952	6,952
11-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.32	Ordinary	4,424	4,424
14-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.31	Ordinary	49,509	49,509
16-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.34	Ordinary	58,671	58,671
16-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.34	Ordinary	19,532	19,532
17-Oct-19	Vanguard Investments Australia Ltd.	SELL	4.32	Ordinary	(4,614)	(4,614)
18-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.33	Ordinary	24,332	24,332
18-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.33	Ordinary	5,490	5,490
21-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.41	Ordinary	14,637	14,637
22-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.39	Ordinary	5,510	5,510
28-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.42	Ordinary	14,637	14,637
28-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.42	Ordinary	5,370	5,370
29-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.40	Ordinary	22,625	22,625
30-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.38	Ordinary	11,864	11,864
30-Oct-19	Vanguard Investments Australia Ltd.	SELL	4.38	Ordinary	(5,682)	(5,682)
31-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.41	Ordinary	19,516	19,516
31-Oct-19	Vanguard Investments Australia Ltd.	BUY	4.41	Ordinary	12,816	12,816
31-Oct-19	Vanguard Investments Australia Ltd.	SELL	4.41	Ordinary	(6,408)	(6,408)
1-Nov-19	Vanguard Investments Australia Ltd.	SELL	4.44	Ordinary	(12,355)	(12,355)
4-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.47	Ordinary	9,758	9,758
5-Nov-19	Vanguard Investments Australia Ltd.	SELL	4.40	Ordinary	(51,812)	(51,812)
5-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.40	Ordinary	6,384	6,384
6-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.37	Ordinary	19,500	19,500
11-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.43	Ordinary	9,750	9,750
11-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.43	Ordinary	22,245	22,245
11-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.43	Ordinary	12,152	12,152

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11-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.43	Ordinary	13,888	13,888
11-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.43	Ordinary	6,944	6,944
12-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.46	Ordinary	14,625	14,625
12-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.46	Ordinary	5,874	5,874
13-Nov-19	Vanguard Investments Australia Ltd.	SELL	4.39	Ordinary	(31,630)	(31,630)
13-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.39	Ordinary	5,223	5,223
13-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.39	Ordinary	1,614	1,614
15-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.52	Ordinary	9,750	9,750
19-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.49	Ordinary	8,695	8,695
19-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.49	Ordinary	13,912	13,912
19-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.49	Ordinary	6,981	6,981
20-Nov-19	Vanguard Investments Australia Ltd.	SELL	4.48	Ordinary	(23,255)	(23,255)
20-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.48	Ordinary	14,613	14,613
20-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.48	Ordinary	14,613	14,613
20-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.48	Ordinary	3,885	3,885
21-Nov-19	Vanguard Investments Australia Ltd.	SELL	4.43	Ordinary	(5,692)	(5,692)
21-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.43	Ordinary	11,634	11,634
22-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.42	Ordinary	9,744	9,744
25-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.42	Ordinary	28,768	28,768
25-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.42	Ordinary	8,665	8,665
25-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.42	Ordinary	15,597	15,597
26-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.42	Ordinary	9,744	9,744
26-Nov-19	Vanguard Investments Australia Ltd.	SELL	4.42	Ordinary	(17,885)	(17,885)
27-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.46	Ordinary	19,484	19,484
28-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.57	Ordinary	24,355	24,355
29-Nov-19	Vanguard Investments Australia Ltd.	BUY	4.60	Ordinary	6,744	6,744
2-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.58	Ordinary	14,613	14,613
2-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.58	Ordinary	19,484	19,484
2-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.58	Ordinary	17,450	17,450
4-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.46	Ordinary	19,484	19,484
4-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.46	Ordinary	19,484	19,484
4-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.46	Ordinary	11,902	11,902
6-Dec-19	Vanguard Investments Australia Ltd.	SELL	4.50	Ordinary	(106,651)	(106,651)
6-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.52	Ordinary	106,651	106,651
6-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.52	Ordinary	14,610	14,610
9-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.54	Ordinary	48,702	48,702
9-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.54	Ordinary	6,660	6,660
10-Dec-19	Vanguard Investments Australia Ltd.	SELL	4.53	Ordinary	(4,300)	(4,300)
11-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.58	Ordinary	10,229	10,229
11-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.58	Ordinary	14,610	14,610
11-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.58	Ordinary	14,610	14,610
12-Dec-19	Vanguard Investments Australia Ltd.	SELL	4.59	Ordinary	(22,390)	(22,390)
13-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.54	Ordinary	19,464	19,464
13-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.54	Ordinary	19,464	19,464
13-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.54	Ordinary	5,540	5,540
16-Dec-19	Vanguard Investments Australia Ltd.	SELL	4.53	Ordinary	(5,507)	(5,507)
16-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.53	Ordinary	5,034	5,034
18-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.39	Ordinary	19,464	19,464
18-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.39	Ordinary	7,574	7,574
19-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.39	Ordinary	19,464	19,464
19-Dec-19	Vanguard Investments Australia Ltd.	SELL	4.39	Ordinary	(20,027)	(20,027)
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.38	Ordinary	19,464	19,464
20-Dec-19	Vanguard Investments Australia Ltd.	SELL	4.38	Ordinary	(63,659)	(63,659)
20-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.40	Ordinary	6,600	6,600
23-Dec-19	Vanguard Investments Australia Ltd.	SELL	4.42	Ordinary	(4,287)	(4,287)
23-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.42	Ordinary	14,553	14,553
27-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.44	Ordinary	3,350	3,350
30-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.31	Ordinary	4,088	4,088
31-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.27	Ordinary	9,816	9,816
31-Dec-19	Vanguard Investments Australia Ltd.	SELL	4.27	Ordinary	(7,255)	(7,255)

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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-Dec-19	Vanguard Investments Australia Ltd.	BUY	4.27	Ordinary	2,540	2,540
2-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.29	Ordinary	6,036	6,036
3-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.33	Ordinary	19,436	19,436
7-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.35	Ordinary	3,066	3,066
8-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.32	Ordinary	9,718	9,718
8-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.32	Ordinary	7,710	7,710
9-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.38	Ordinary	9,718	9,718
9-Jan-20	Vanguard Investments Australia Ltd.	SELL	4.38	Ordinary	(4,160)	(4,160)
13-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.46	Ordinary	14,577	14,577
13-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.46	Ordinary	4,941	4,941
13-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.46	Ordinary	7,875	7,875
14-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.50	Ordinary	4,941	4,941
15-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.54	Ordinary	14,577	14,577
16-Jan-20	Vanguard Investments Australia Ltd.	SELL	4.58	Ordinary	(2,511)	(2,511)
20-Jan-20	Vanguard Investments Australia Ltd.	SELL	4.58	Ordinary	(5,484)	(5,484)
20-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.58	Ordinary	14,577	14,577
21-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.63	Ordinary	7,710	7,710
28-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.70	Ordinary	14,574	14,574
30-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.68	Ordinary	14,574	14,574
30-Jan-20	Vanguard Investments Australia Ltd.	BUY	4.68	Ordinary	7,710	7,710
3-Feb-20	Vanguard Investments Australia Ltd.	BUY	4.70	Ordinary	14,574	14,574
7-Feb-20	Vanguard Investments Australia Ltd.	SELL	4.92	Ordinary	(2,000)	(2,000)
7-Feb-20	Vanguard Investments Australia Ltd.	BUY	4.92	Ordinary	5,170	5,170
10-Feb-20	Vanguard Investments Australia Ltd.	BUY	4.85	Ordinary	15,582	15,582
11-Feb-20	Vanguard Investments Australia Ltd.	BUY	4.85	Ordinary	19,432	19,432
11-Feb-20	Vanguard Investments Australia Ltd.	BUY	4.85	Ordinary	9,940	9,940
13-Feb-20	Vanguard Investments Australia Ltd.	BUY	4.96	Ordinary	19,516	19,516
17-Feb-20	Vanguard Investments Australia Ltd.	SELL	4.97	Ordinary	(17,906)	(17,906)
19-Feb-20	Vanguard Investments Australia Ltd.	BUY	5.05	Ordinary	14,634	14,634
21-Feb-20	Vanguard Investments Australia Ltd.	BUY	4.93	Ordinary	14,634	14,634
21-Feb-20	Vanguard Investments Australia Ltd.	BUY	4.81	Ordinary	276,123	276,123
26-Feb-20	Vanguard Investments Australia Ltd.	BUY	4.84	Ordinary	9,758	9,758
26-Feb-20	Vanguard Investments Australia Ltd.	BUY	4.84	Ordinary	7,888	7,888
27-Feb-20	Vanguard Investments Australia Ltd.	SELL	4.84	Ordinary	(23,861)	(23,861)
27-Feb-20	Vanguard Investments Australia Ltd.	BUY	4.84	Ordinary	29,156	29,156
28-Feb-20	Vanguard Investments Australia Ltd.	SELL	4.72	Ordinary	(10,330)	(10,330)
28-Feb-20	Vanguard Investments Australia Ltd.	SELL	4.72	Ordinary	(20,661)	(20,661)
28-Feb-20	Vanguard Investments Australia Ltd.	SELL	4.72	Ordinary	(7,631)	(7,631)
28-Feb-20	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	7,320	7,320
2-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.72	Ordinary	4,893	4,893
3-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.80	Ordinary	14,571	14,571
3-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.80	Ordinary	13,095	13,095
4-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.81	Ordinary	20,053	20,053
4-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.81	Ordinary	8,211	8,211
9-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.86	Ordinary	16,660	16,660
9-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.86	Ordinary	14,084	14,084
10-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.78	Ordinary	9,710	9,710
10-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.78	Ordinary	17,579	17,579
11-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.70	Ordinary	9,040	9,040
11-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.70	Ordinary	11,300	11,300
12-Mar-20	Vanguard Investments Australia Ltd.	SELL	4.45	Ordinary	(71,858)	(71,858)
12-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.45	Ordinary	7,871	7,871
12-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.45	Ordinary	13,890	13,890
12-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.45	Ordinary	35,634	35,634
13-Mar-20	Vanguard Investments Australia Ltd.	SELL	4.35	Ordinary	(16,526)	(16,526)
13-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.35	Ordinary	13,800	13,800
13-Mar-20	Vanguard Investments Australia Ltd.	BUY	4.35	Ordinary	21,617	21,617
16-Mar-20	Vanguard Investments Australia Ltd.	SELL	4.06	Ordinary	(54)	(54)
16-Mar-20	Vanguard Investments Australia Ltd.	SELL	3.94	Ordinary	(172,667)	(172,667)
16-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.90	Ordinary	16,100	16,100

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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
17-Mar-20	Vanguard Investments Australia Ltd.	SELL	3.80	Ordinary	(27,364)	(27,364)
17-Mar-20	Vanguard Investments Australia Ltd.	SELL	3.80	Ordinary	(287,325)	(287,325)
17-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.80	Ordinary	6,906	6,906
17-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.80	Ordinary	12,150	12,150
17-Mar-20	Vanguard Investments Australia Ltd.	SELL	3.89	Ordinary	(6,600)	(6,600)
18-Mar-20	Vanguard Investments Australia Ltd.	SELL	3.38	Ordinary	(11,137)	(11,137)
18-Mar-20	Vanguard Investments Australia Ltd.	SELL	3.38	Ordinary	(112,411)	(112,411)
18-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.38	Ordinary	14,580	14,580
18-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.38	Ordinary	14,362	14,362
19-Mar-20	Vanguard Investments Australia Ltd.	BUY	2.95	Ordinary	2,302	2,302
19-Mar-20	Vanguard Investments Australia Ltd.	SELL	2.99	Ordinary	(252,996)	(252,996)
19-Mar-20	Vanguard Investments Australia Ltd.	BUY	2.95	Ordinary	11,477	11,477
20-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.16	Ordinary	19,384	19,384
20-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.16	Ordinary	12,164	12,164
20-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.16	Ordinary	14,568	14,568
20-Mar-20	Vanguard Investments Australia Ltd.	SELL	3.16	Ordinary	(111,864)	(111,864)
20-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.16	Ordinary	15,593	15,593
23-Mar-20	Vanguard Investments Australia Ltd.	BUY	2.81	Ordinary	7,224	7,224
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.47	Ordinary	82,688	82,688
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.47	Ordinary	7,995	7,995
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.00	Ordinary	12,907	12,907
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.01	Ordinary	747	747
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.00	Ordinary	5,938	5,938
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.01	Ordinary	343	343
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	2.96	Ordinary	14,592	14,592
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	2.96	Ordinary	19,456	19,456
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	2.96	Ordinary	12,550	12,550
27-Mar-20	Vanguard Investments Australia Ltd.	SELL	2.96	Ordinary	(13,554)	(13,554)
30-Mar-20	Vanguard Investments Australia Ltd.	SELL	3.05	Ordinary	(1,313)	(1,313)
30-Mar-20	Vanguard Investments Australia Ltd.	SELL	2.94	Ordinary	(4,773)	(4,773)
30-Mar-20	Vanguard Investments Australia Ltd.	SELL	2.94	Ordinary	(32,574)	(32,574)
31-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.11	Ordinary	19,492	19,492
31-Mar-20	Vanguard Investments Australia Ltd.	SELL	3.10	Ordinary	(192,727)	(192,727)
31-Mar-20	Vanguard Investments Australia Ltd.	BUY	3.11	Ordinary	10,040	10,040
1-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.27	Ordinary	6,630	6,630
2-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.17	Ordinary	21,602	21,602
2-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.17	Ordinary	7,725	7,725
3-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.01	Ordinary	2,680	2,680
7-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.18	Ordinary	24,080	24,080
7-Apr-20	Vanguard Investments Australia Ltd.	SELL	3.18	Ordinary	(9,950)	(9,950)
7-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.18	Ordinary	18,760	18,760
8-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.16	Ordinary	66,405	66,405
9-Apr-20	Vanguard Investments Australia Ltd.	SELL	3.24	Ordinary	(22,874)	(22,874)
9-Apr-20	Vanguard Investments Australia Ltd.	SELL	3.24	Ordinary	(2,120)	(2,120)
9-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.24	Ordinary	18,326	18,326
14-Apr-20	Vanguard Investments Australia Ltd.	SELL	3.23	Ordinary	(24,846)	(24,846)
14-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.23	Ordinary	19,260	19,260
14-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.23	Ordinary	19,260	19,260
14-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.23	Ordinary	19,260	19,260
15-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.32	Ordinary	10,660	10,660
16-Apr-20	Vanguard Investments Australia Ltd.	SELL	3.21	Ordinary	(10,804)	(10,804)
16-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.21	Ordinary	27,573	27,573
21-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.12	Ordinary	10,760	10,760
21-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.12	Ordinary	9,146	9,146
22-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.18	Ordinary	19,204	19,204
23-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.16	Ordinary	8,190	8,190
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	40,723	40,723
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	19,950	19,950
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	68,928	68,928
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	23,781	23,781

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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-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	12,978	12,978
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	34,745	34,745
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	9,300	9,300
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	24,109	24,109
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	20,214	20,214
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	49,914	49,914
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	2,296	2,296
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	110,530	110,530
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	277,856	277,856
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	45,193	45,193
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	8,370	8,370
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	84,479	84,479
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	46,119	46,119
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	129,351	129,351
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	98,328	98,328
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	302,898	302,898
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	2,552,301	2,552,301
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.00	Ordinary	19,204	19,204
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	1,088	1,088
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	100,633	100,633
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	228,092	228,092
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.00	Ordinary	9,702	9,702
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	795,230	795,230
29-Apr-20	Vanguard Investments Australia Ltd.	BUY	2.98	Ordinary	4,851	4,851
30-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.17	Ordinary	19,204	19,204
30-Apr-20	Vanguard Investments Australia Ltd.	BUY	3.17	Ordinary	6,468	6,468
1-May-20	Vanguard Investments Australia Ltd.	BUY	3.03	Ordinary	14,403	14,403
1-May-20	Vanguard Investments Australia Ltd.	BUY	3.03	Ordinary	7,830	7,830
1-May-20	Vanguard Investments Australia Ltd.	BUY	3.03	Ordinary	10,440	10,440
4-May-20	Vanguard Investments Australia Ltd.	BUY	3.09	Ordinary	14,336	14,336
5-May-20	Vanguard Investments Australia Ltd.	BUY	3.08	Ordinary	35,328	35,328
5-May-20	Vanguard Investments Australia Ltd.	BUY	3.08	Ordinary	1,156,397	1,156,397
5-May-20	Vanguard Investments Australia Ltd.	BUY	3.08	Ordinary	51,820	51,820
6-May-20	Vanguard Investments Australia Ltd.	BUY	3.09	Ordinary	15,140	15,140
6-May-20	Vanguard Investments Australia Ltd.	BUY	3.09	Ordinary	495,598	495,598
6-May-20	Vanguard Investments Australia Ltd.	BUY	3.09	Ordinary	22,209	22,209
8-May-20	Vanguard Investments Australia Ltd.	BUY	3.07	Ordinary	588	588
11-May-20	Vanguard Investments Australia Ltd.	BUY	3.17	Ordinary	36,390	36,390
12-May-20	Vanguard Investments Australia Ltd.	SELL	3.12	Ordinary	(8,141)	(8,141)
12-May-20	Vanguard Investments Australia Ltd.	BUY	3.12	Ordinary	18,138	18,138
12-May-20	Vanguard Investments Australia Ltd.	BUY	3.12	Ordinary	8,316	8,316
13-May-20	Vanguard Investments Australia Ltd.	BUY	3.03	Ordinary	8,910	8,910
19-May-20	Vanguard Investments Australia Ltd.	BUY	3.12	Ordinary	170,469	170,469
19-May-20	Vanguard Investments Australia Ltd.	BUY	3.12	Ordinary	11,800	11,800
20-May-20	Vanguard Investments Australia Ltd.	SELL	3.10	Ordinary	(2,276)	(2,276)
20-May-20	Vanguard Investments Australia Ltd.	BUY	3.10	Ordinary	6,462	6,462
20-May-20	Vanguard Investments Australia Ltd.	BUY	3.10	Ordinary	9,472	9,472
21-May-20	Vanguard Investments Australia Ltd.	BUY	3.05	Ordinary	18,135	18,135
22-May-20	Vanguard Investments Australia Ltd.	BUY	3.03	Ordinary	7,068	7,068
25-May-20	Vanguard Investments Australia Ltd.	BUY	3.17	Ordinary	38,809	38,809
25-May-20	Vanguard Investments Australia Ltd.	BUY	3.17	Ordinary	5,890	5,890
26-May-20	Vanguard Investments Australia Ltd.	BUY	3.26	Ordinary	51,020	51,020
26-May-20	Vanguard Investments Australia Ltd.	BUY	3.26	Ordinary	8,835	8,835
27-May-20	Vanguard Investments Australia Ltd.	BUY	3.37	Ordinary	3,056	3,056
27-May-20	Vanguard Investments Australia Ltd.	BUY	3.37	Ordinary	49,682	49,682
28-May-20	Vanguard Investments Australia Ltd.	BUY	3.36	Ordinary	24,184	24,184
29-May-20	Vanguard Investments Australia Ltd.	BUY	3.27	Ordinary	20,502	20,502
29-May-20	Vanguard Investments Australia Ltd.	BUY	3.27	Ordinary	8,775	8,775
1-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.23	Ordinary	12,092	12,092
1-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.23	Ordinary	63,064	63,064

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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
2-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.21	Ordinary	20,605	20,605
3-Jun-20	Vanguard Investments Australia Ltd.	SELL	3.25	Ordinary	(4,413)	(4,413)
3-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.29	Ordinary	103,227	103,227
4-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.38	Ordinary	24,184	24,184
4-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.38	Ordinary	24,184	24,184
4-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.38	Ordinary	69,144	69,144
5-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.36	Ordinary	9,015	9,015
5-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.36	Ordinary	7,212	7,212
9-Jun-20	Vanguard Investments Australia Ltd.	SELL	3.61	Ordinary	(3,259)	(3,259)
10-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.60	Ordinary	5,973	5,973
10-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.60	Ordinary	56,382	56,382
11-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.40	Ordinary	23,892	23,892
11-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.40	Ordinary	29,865	29,865
11-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.40	Ordinary	9,000	9,000
15-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.34	Ordinary	11,700	11,700
16-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.44	Ordinary	5,810	5,810
17-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.56	Ordinary	8,670	8,670
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.57	Ordinary	33,517	33,517
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.57	Ordinary	10,174	10,174
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.57	Ordinary	10,184	10,184
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.57	Ordinary	23,117	23,117
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.57	Ordinary	42,384	42,384
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.57	Ordinary	68,816	68,816
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.57	Ordinary	74,315	74,315
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.57	Ordinary	1,453,772	1,453,772
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.57	Ordinary	9,022	9,022
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.57	Ordinary	1,142	1,142
22-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.50	Ordinary	32,841	32,841
23-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.53	Ordinary	38,421	38,421
23-Jun-20	Vanguard Investments Australia Ltd.	SELL	3.53	Ordinary	(9,758)	(9,758)
25-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.44	Ordinary	25,660	25,660
25-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.44	Ordinary	13,317	13,317
29-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.35	Ordinary	25,141	25,141
29-Jun-20	Vanguard Investments Australia Ltd.	BUY	3.35	Ordinary	26,012	26,012
30-Jun-20	Vanguard Investments Australia Ltd.	SELL	3.38	Ordinary	(497)	(497)
30-Jun-20	Vanguard Investments Australia Ltd.	SELL	3.36	Ordinary	(173,191)	(173,191)
30-Jun-20	Vanguard Investments Australia Ltd.	SELL	3.35	Ordinary	(34,502)	(34,502)
1-Jul-20	Vanguard Investments Australia Ltd.	BUY	3.40	Ordinary	17,910	17,910
1-Jul-20	Vanguard Investments Australia Ltd.	BUY	3.40	Ordinary	6,432	6,432
6-Jul-20	Vanguard Investments Australia Ltd.	BUY	3.41	Ordinary	25,732	25,732
8-Jul-20	Vanguard Investments Australia Ltd.	BUY	3.16	Ordinary	43,588	43,588
8-Jul-20	Vanguard Investments Australia Ltd.	SELL	3.16	Ordinary	(74,167)	(74,167)
8-Jul-20	Vanguard Investments Australia Ltd.	SELL	3.16	Ordinary	(43,588)	(43,588)
9-Jul-20	Vanguard Investments Australia Ltd.	SELL	3.19	Ordinary	(108,017)	(108,017)
10-Jul-20	Vanguard Investments Australia Ltd.	BUY	3.22	Ordinary	87,269	87,269
15-Jul-20	Vanguard Investments Australia Ltd.	BUY	3.23	Ordinary	11,292	11,292
16-Jul-20	Vanguard Investments Australia Ltd.	SELL	3.17	Ordinary	(5,301)	(5,301)
23-Jul-20	Vanguard Investments Australia Ltd.	SELL	3.20	Ordinary	(9,871)	(9,871)
24-Jul-20	Vanguard Investments Australia Ltd.	BUY	3.22	Ordinary	25,728	25,728
24-Jul-20	Vanguard Investments Australia Ltd.	BUY	3.22	Ordinary	88,250	88,250
27-Jul-20	Vanguard Investments Australia Ltd.	SELL	3.22	Ordinary	(2,267)	(2,267)
28-Jul-20	Vanguard Investments Australia Ltd.	BUY	3.25	Ordinary	6,432	6,432
30-Jul-20	Vanguard Investments Australia Ltd.	BUY	3.20	Ordinary	7,605	7,605
31-Jul-20	Vanguard Investments Australia Ltd.	BUY	3.18	Ordinary	99,415	99,415
5-Aug-20	Vanguard Investments Australia Ltd.	SELL	3.19	Ordinary	(11,036)	(11,036)
5-Aug-20	Vanguard Investments Australia Ltd.	BUY	3.19	Ordinary	8,865	8,865
6-Aug-20	Vanguard Investments Australia Ltd.	SELL	3.13	Ordinary	(2,288)	(2,288)
7-Aug-20	Vanguard Investments Australia Ltd.	BUY	3.12	Ordinary	11,920	11,920
11-Aug-20	Vanguard Investments Australia Ltd.	SELL	3.25	Ordinary	(4,719)	(4,719)
12-Aug-20	Vanguard Investments Australia Ltd.	SELL	3.37	Ordinary	(33,117)	(33,117)

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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-Aug-20	Vanguard Investments Australia Ltd.	BUY	3.37	Ordinary	5,689	5,689
12-Aug-20	Vanguard Investments Australia Ltd.	BUY	3.37	Ordinary	33,117	33,117
13-Aug-20	Vanguard Investments Australia Ltd.	SELL	3.30	Ordinary	(2,226)	(2,226)
19-Aug-20	Vanguard Investments Australia Ltd.	SELL	3.28	Ordinary	(38,544)	(38,544)
20-Aug-20	Vanguard Investments Australia Ltd.	SELL	3.24	Ordinary	(2,256)	(2,256)
21-Aug-20	Vanguard Investments Australia Ltd.	BUY	3.34	Ordinary	8,244	8,244
25-Aug-20	Vanguard Investments Australia Ltd.	BUY	3.33	Ordinary	8,910	8,910
31-Aug-20	Vanguard Investments Australia Ltd.	BUY	3.44	Ordinary	11,317	11,317
1-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.31	Ordinary	259,033	259,033
1-Sep-20	Vanguard Investments Australia Ltd.	SELL	3.31	Ordinary	(331,552)	(331,552)
1-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.31	Ordinary	9,888	9,888
7-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.33	Ordinary	8,021	8,021
8-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.38	Ordinary	8,529	8,529
9-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.34	Ordinary	11,142	11,142
10-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.35	Ordinary	4,187	4,187
16-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.52	Ordinary	3,045	3,045
17-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.53	Ordinary	1,356	1,356
17-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.53	Ordinary	1,141	1,141
17-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.53	Ordinary	2,712	2,712
17-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.53	Ordinary	37,666	37,666
17-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.53	Ordinary	8,492	8,492
18-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.51	Ordinary	13,387	13,387
18-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.51	Ordinary	11,264	11,264
18-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.51	Ordinary	26,774	26,774
18-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.51	Ordinary	372,042	372,042
18-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.51	Ordinary	4,856	4,856
18-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.51	Ordinary	3,035	3,035
18-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.51	Ordinary	83,874	83,874
21-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.44	Ordinary	10,631	10,631
21-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.44	Ordinary	351,146	351,146
21-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.46	Ordinary	1,959	1,959
22-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.42	Ordinary	4,619	4,619
22-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.42	Ordinary	26,616	26,616
23-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.48	Ordinary	129,002	129,002
24-Sep-20	Vanguard Investments Australia Ltd.	SELL	3.49	Ordinary	(8,356)	(8,356)
25-Sep-20	Vanguard Investments Australia Ltd.	SELL	3.50	Ordinary	(3,048)	(3,048)
25-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.50	Ordinary	6,530	6,530
28-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.55	Ordinary	6,267	6,267
29-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.46	Ordinary	33,315	33,315
29-Sep-20	Vanguard Investments Australia Ltd.	SELL	3.46	Ordinary	(87,259)	(87,259)
29-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.46	Ordinary	1,962	1,962
30-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.37	Ordinary	111,336	111,336
30-Sep-20	Vanguard Investments Australia Ltd.	SELL	3.36	Ordinary	(2,225)	(2,225)
30-Sep-20	Vanguard Investments Australia Ltd.	SELL	3.36	Ordinary	(72,572)	(72,572)
30-Sep-20	Vanguard Investments Australia Ltd.	BUY	3.36	Ordinary	6,520	6,520
2-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.50	Ordinary	28,571	28,571
2-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.50	Ordinary	60,715	60,715
5-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.57	Ordinary	9,600	9,600
6-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.58	Ordinary	132,591	132,591
6-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.57	Ordinary	6,410	6,410
6-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.58	Ordinary	185,958	185,958
7-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.62	Ordinary	26,604	26,604
7-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.62	Ordinary	6,270	6,270
8-Oct-20	Vanguard Investments Australia Ltd.	SELL	3.57	Ordinary	(46,557)	(46,557)
12-Oct-20	Vanguard Investments Australia Ltd.	SELL	3.58	Ordinary	(3,305)	(3,305)
12-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.58	Ordinary	644	644
13-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.62	Ordinary	6,560	6,560
15-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.65	Ordinary	26,600	26,600
15-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.64	Ordinary	139,281	139,281
16-Oct-20	Vanguard Investments Australia Ltd.	SELL	3.60	Ordinary	(2,444)	(2,444)

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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
19-Oct-20	Vanguard Investments Australia Ltd.	SELL	3.58	Ordinary	(30,394)	(30,394)
20-Oct-20	Vanguard Investments Australia Ltd.	SELL	3.59	Ordinary	(26,600)	(26,600)
20-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.59	Ordinary	37,164	37,164
21-Oct-20	Vanguard Investments Australia Ltd.	SELL	3.57	Ordinary	(2,734)	(2,734)
22-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.55	Ordinary	26,600	26,600
23-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.59	Ordinary	6,550	6,550
27-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.51	Ordinary	47,617	47,617
27-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.51	Ordinary	8,364	8,364
28-Oct-20	Vanguard Investments Australia Ltd.	SELL	3.52	Ordinary	(48,379)	(48,379)
28-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.52	Ordinary	6,500	6,500
29-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.41	Ordinary	3,260	3,260
30-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.43	Ordinary	24,414	24,414
30-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.43	Ordinary	29,161	29,161
30-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.44	Ordinary	6,273	6,273
30-Oct-20	Vanguard Investments Australia Ltd.	BUY	3.44	Ordinary	29,371	29,371
2-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.49	Ordinary	26,584	26,584
3-Nov-20	Vanguard Investments Australia Ltd.	SELL	3.59	Ordinary	(4,287)	(4,287)
3-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.59	Ordinary	6,540	6,540
4-Nov-20	Vanguard Investments Australia Ltd.	SELL	3.63	Ordinary	(26,584)	(26,584)
4-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.63	Ordinary	9,720	9,720
5-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.65	Ordinary	1,292	1,292
10-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.84	Ordinary	11,067	11,067
11-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.95	Ordinary	105,973	105,973
11-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.95	Ordinary	6,273	6,273
12-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.87	Ordinary	6,646	6,646
13-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.81	Ordinary	34,344	34,344
13-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.81	Ordinary	11,016	11,016
17-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.89	Ordinary	4,182	4,182
17-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.89	Ordinary	6,540	6,540
18-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.83	Ordinary	13,290	13,290
18-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.83	Ordinary	39,870	39,870
20-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.96	Ordinary	26,584	26,584
20-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.96	Ordinary	652	652
20-Nov-20	Vanguard Investments Australia Ltd.	BUY	3.96	Ordinary	1,304	1,304

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: 25 November 2020