

Form 604
Corporations Act 2001
Section 671B

Notice of change of interests of substantial holder

To Company Name/Scheme
ACN/ARSN

Mirvac Group
003 280 699

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

18 September 2019

The previous notice was given to the company on

05 June 2018

The previous notice was dated

05 June 2018

2. Previous and present voting power

The total number of votes attached to all the voting shares in the company or voting interests in the scheme that the substantial holder or an associate (2) had a relevant interest (3) in when last required, and when now required, to give a substantial holding notice to the company or scheme, are as follows:

Class of securities (4)	Previous notice		Present notice	
	Person's votes	Voting power (5)	Person's votes	Voting power (5)
Ordinary	351,916,040	9.483%	415,601,897	10.565%

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 – 9,827,574	9,827,574
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 – 10,753,991	10,753,991
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 – 274,416,292	274,416,292
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 – 51,105,786	51,105,786
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 – 69,498,254	69,498,254

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:

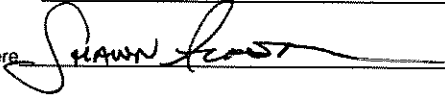
Name and ACN/ARSN (if applicable)	Nature of association
N/A	N/A

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 20 September 2019

To Company
ACN/ARSN

Mirvac Group
003 280 699

Substantial Holder Name
ACN/ARSN

Vanguard Group
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
4-Jun-2018	The Vanguard Group, Inc.	Buy	2.30	Ordinary	101,376	101,376
5-Jun-2018	The Vanguard Group, Inc.	Buy	2.22	Ordinary	61,062	61,062
5-Jun-2018	The Vanguard Group, Inc.	Buy	2.25	Ordinary	5,297	5,297
7-Jun-2018	The Vanguard Group, Inc.	Sell	2.20	Ordinary	(48,454)	(48,454)
15-Jun-2018	The Vanguard Group, Inc.	Sell	2.23	Ordinary	(56,322)	(56,322)
18-Jun-2018	The Vanguard Group, Inc.	Buy	2.26	Ordinary	304,005	304,005
18-Jun-2018	The Vanguard Group, Inc.	Buy	2.26	Ordinary	60,801	60,801
26-Jun-2018	The Vanguard Group, Inc.	Buy	2.21	Ordinary	370,255	370,255
27-Jun-2018	The Vanguard Group, Inc.	Sell	2.20	Ordinary	(3,229)	(3,229)
29-Jun-2018	The Vanguard Group, Inc.	Buy	2.17	Ordinary	421,072	421,072
3-Jul-2018	The Vanguard Group, Inc.	Buy	2.21	Ordinary	12,935	12,935
4-Jul-2018	The Vanguard Group, Inc.	Buy	2.23	Ordinary	26,374	26,374
6-Jul-2018	The Vanguard Group, Inc.	Buy	2.23	Ordinary	31,044	31,044
6-Jul-2018	The Vanguard Group, Inc.	Buy	2.22	Ordinary	21,491	21,491
9-Jul-2018	The Vanguard Group, Inc.	Buy	2.23	Ordinary	60,807	60,807
12-Jul-2018	The Vanguard Group, Inc.	Sell	2.23	Ordinary	(18,372)	(18,372)
12-Jul-2018	The Vanguard Group, Inc.	Sell	2.21	Ordinary	(2,423)	(2,423)
12-Jul-2018	The Vanguard Group, Inc.	Sell	2.23	Ordinary	(59,448)	(59,448)
17-Jul-2018	The Vanguard Group, Inc.	Buy	2.22	Ordinary	302,376	302,376
18-Jul-2018	The Vanguard Group, Inc.	Sell	2.24	Ordinary	(121,614)	(121,614)
20-Jul-2018	The Vanguard Group, Inc.	Buy	2.26	Ordinary	318,965	318,965
20-Jul-2018	The Vanguard Group, Inc.	Buy	2.26	Ordinary	25,870	25,870
20-Jul-2018	The Vanguard Group, Inc.	Buy	2.26	Ordinary	23,999	23,999
23-Jul-2018	The Vanguard Group, Inc.	Sell	2.26	Ordinary	(11,190)	(11,190)
24-Jul-2018	The Vanguard Group, Inc.	Buy	2.26	Ordinary	17,910	17,910
25-Jul-2018	The Vanguard Group, Inc.	Sell	2.28	Ordinary	(11,190)	(11,190)
25-Jul-2018	The Vanguard Group, Inc.	Sell	2.28	Ordinary	(55,950)	(55,950)
25-Jul-2018	The Vanguard Group, Inc.	Sell	2.28	Ordinary	(7,460)	(7,460)
25-Jul-2018	The Vanguard Group, Inc.	Sell	2.27	Ordinary	(2,706)	(2,706)
26-Jul-2018	The Vanguard Group, Inc.	Buy	2.27	Ordinary	2,470	2,470
27-Jul-2018	The Vanguard Group, Inc.	Buy	2.28	Ordinary	74,358	74,358
27-Jul-2018	The Vanguard Group, Inc.	Sell	2.29	Ordinary	(19,828)	(19,828)
30-Jul-2018	The Vanguard Group, Inc.	Sell	2.30	Ordinary	(18,036)	(18,036)
1-Aug-2018	The Vanguard Group, Inc.	Sell	2.29	Ordinary	(2,345)	(2,345)
2-Aug-2018	The Vanguard Group, Inc.	Sell	2.31	Ordinary	(37,300)	(37,300)
3-Aug-2018	The Vanguard Group, Inc.	Sell	2.31	Ordinary	(14,678)	(14,678)
3-Aug-2018	The Vanguard Group, Inc.	Buy	2.31	Ordinary	3,262	3,262
9-Aug-2018	The Vanguard Group, Inc.	Buy	2.29	Ordinary	117,686	117,686
9-Aug-2018	The Vanguard Group, Inc.	Sell	2.36	Ordinary	(141,883)	(141,883)
10-Aug-2018	The Vanguard Group, Inc.	Sell	2.32	Ordinary	(89,520)	(89,520)
14-Aug-2018	The Vanguard Group, Inc.	Buy	2.40	Ordinary	459,255	459,255
15-Aug-2018	The Vanguard Group, Inc.	Sell	2.40	Ordinary	(44,760)	(44,760)
16-Aug-2018	The Vanguard Group, Inc.	Buy	2.43	Ordinary	378,119	378,119
17-Aug-2018	The Vanguard Group, Inc.	Buy	2.42	Ordinary	18,109	18,109
20-Aug-2018	The Vanguard Group, Inc.	Buy	2.44	Ordinary	382,733	382,733
24-Aug-2018	The Vanguard Group, Inc.	Buy	2.35	Ordinary	28,457	28,457
5-Sep-2018	The Vanguard Group, Inc.	Buy	2.50	Ordinary	434,725	434,725
5-Sep-2018	The Vanguard Group, Inc.	Sell	2.50	Ordinary	(2,260)	(2,260)
5-Sep-2018	The Vanguard Group, Inc.	Sell	2.51	Ordinary	(3,259)	(3,259)
6-Sep-2018	The Vanguard Group, Inc.	Buy	2.50	Ordinary	279,602	279,602
7-Sep-2018	The Vanguard Group, Inc.	Buy	2.46	Ordinary	50,562	50,562
7-Sep-2018	The Vanguard Group, Inc.	Buy	2.46	Ordinary	18,372	18,372
10-Sep-2018	The Vanguard Group, Inc.	Buy	2.43	Ordinary	7,894	7,894
11-Sep-2018	The Vanguard Group, Inc.	Buy	2.46	Ordinary	164,408	164,408
12-Sep-2018	The Vanguard Group, Inc.	Buy	2.44	Ordinary	27,558	27,558
12-Sep-2018	The Vanguard Group, Inc.	Sell	2.45	Ordinary	(242,623)	(242,623)
17-Sep-2018	The Vanguard Group, Inc.	Buy	2.45	Ordinary	30,586	30,586
18-Sep-2018	The Vanguard Group, Inc.	Buy	2.49	Ordinary	3,348	3,348
20-Sep-2018	The Vanguard Group, Inc.	Buy	2.42	Ordinary	6,055	6,055
21-Sep-2018	The Vanguard Group, Inc.	Sell	2.41	Ordinary	(112,109)	(112,109)
21-Sep-2018	The Vanguard Group, Inc.	Sell	2.41	Ordinary	(43,523)	(43,523)
21-Sep-2018	The Vanguard Group, Inc.	Buy	2.41	Ordinary	10,977	10,977

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
26-Sep-2018	The Vanguard Group, Inc.	Buy	2.43	Ordinary	18,312	18,312
26-Sep-2018	The Vanguard Group, Inc.	Buy	2.43	Ordinary	36,624	36,624
26-Sep-2018	The Vanguard Group, Inc.	Buy	2.43	Ordinary	45,780	45,780
28-Sep-2018	The Vanguard Group, Inc.	Buy	2.41	Ordinary	3,426	3,426
1-Oct-2018	The Vanguard Group, Inc.	Buy	2.37	Ordinary	27,468	27,468
2-Oct-2018	The Vanguard Group, Inc.	Buy	2.33	Ordinary	73,248	73,248
2-Oct-2018	The Vanguard Group, Inc.	Sell	2.36	Ordinary	(2,322)	(2,322)
3-Oct-2018	The Vanguard Group, Inc.	Buy	2.33	Ordinary	27,468	27,468
3-Oct-2018	The Vanguard Group, Inc.	Buy	2.33	Ordinary	23,538	23,538
9-Oct-2018	The Vanguard Group, Inc.	Buy	2.33	Ordinary	66,691	66,691
11-Oct-2018	The Vanguard Group, Inc.	Buy	2.28	Ordinary	22,374	22,374
12-Oct-2018	The Vanguard Group, Inc.	Sell	2.24	Ordinary	(163,208)	(163,208)
15-Oct-2018	The Vanguard Group, Inc.	Buy	2.18	Ordinary	37,290	37,290
16-Oct-2018	The Vanguard Group, Inc.	Sell	2.18	Ordinary	(2,507)	(2,507)
16-Oct-2018	The Vanguard Group, Inc.	Buy	2.19	Ordinary	1,242	1,242
16-Oct-2018	The Vanguard Group, Inc.	Buy	2.18	Ordinary	73,332	73,332
19-Oct-2018	The Vanguard Group, Inc.	Buy	2.25	Ordinary	22,374	22,374
19-Oct-2018	The Vanguard Group, Inc.	Buy	2.25	Ordinary	27,468	27,468
23-Oct-2018	The Vanguard Group, Inc.	Sell	2.25	Ordinary	(61,203)	(61,203)
23-Oct-2018	The Vanguard Group, Inc.	Sell	2.25	Ordinary	(163,208)	(163,208)
23-Oct-2018	The Vanguard Group, Inc.	Buy	2.25	Ordinary	23,174	23,174
25-Oct-2018	The Vanguard Group, Inc.	Buy	2.20	Ordinary	460,387	460,387
25-Oct-2018	The Vanguard Group, Inc.	Buy	2.20	Ordinary	155,923	155,923
25-Oct-2018	The Vanguard Group, Inc.	Buy	2.21	Ordinary	22,890	22,890
26-Oct-2018	The Vanguard Group, Inc.	Buy	2.21	Ordinary	4,279	4,279
26-Oct-2018	The Vanguard Group, Inc.	Buy	2.20	Ordinary	15,769	15,769
29-Oct-2018	The Vanguard Group, Inc.	Sell	2.19	Ordinary	(81,604)	(81,604)
29-Oct-2018	The Vanguard Group, Inc.	Sell	2.19	Ordinary	(81,604)	(81,604)
30-Oct-2018	The Vanguard Group, Inc.	Buy	2.21	Ordinary	596,095	596,095
30-Oct-2018	The Vanguard Group, Inc.	Buy	2.22	Ordinary	52,920	52,920
31-Oct-2018	The Vanguard Group, Inc.	Buy	2.17	Ordinary	32,046	32,046
31-Oct-2018	The Vanguard Group, Inc.	Sell	2.17	Ordinary	(61,203)	(61,203)
31-Oct-2018	The Vanguard Group, Inc.	Sell	2.17	Ordinary	(265,213)	(265,213)
31-Oct-2018	The Vanguard Group, Inc.	Buy	2.17	Ordinary	3,902	3,902
1-Nov-2018	The Vanguard Group, Inc.	Buy	2.12	Ordinary	45,780	45,780
1-Nov-2018	The Vanguard Group, Inc.	Sell	2.12	Ordinary	(243,162)	(243,162)
2-Nov-2018	The Vanguard Group, Inc.	Sell	2.12	Ordinary	(83,435)	(83,435)
5-Nov-2018	The Vanguard Group, Inc.	Sell	2.10	Ordinary	(27,904)	(27,904)
7-Nov-2018	The Vanguard Group, Inc.	Buy	2.18	Ordinary	36,624	36,624
7-Nov-2018	The Vanguard Group, Inc.	Buy	2.16	Ordinary	4,558	4,558
9-Nov-2018	The Vanguard Group, Inc.	Sell	2.20	Ordinary	(7,147)	(7,147)
12-Nov-2018	The Vanguard Group, Inc.	Buy	2.20	Ordinary	27,468	27,468
13-Nov-2018	The Vanguard Group, Inc.	Buy	2.21	Ordinary	7,936	7,936
13-Nov-2018	The Vanguard Group, Inc.	Buy	2.23	Ordinary	15,675	15,675
14-Nov-2018	The Vanguard Group, Inc.	Buy	2.20	Ordinary	36,624	36,624
14-Nov-2018	The Vanguard Group, Inc.	Buy	2.20	Ordinary	27,468	27,468
14-Nov-2018	The Vanguard Group, Inc.	Buy	2.21	Ordinary	325,532	325,532
15-Nov-2018	The Vanguard Group, Inc.	Buy	2.22	Ordinary	313,882	313,882
15-Nov-2018	The Vanguard Group, Inc.	Buy	2.21	Ordinary	40,240	40,240
21-Nov-2018	The Vanguard Group, Inc.	Buy	2.19	Ordinary	36,624	36,624
27-Nov-2018	The Vanguard Group, Inc.	Buy	2.27	Ordinary	3,494	3,494
28-Nov-2018	The Vanguard Group, Inc.	Buy	2.26	Ordinary	3,729	3,729
28-Nov-2018	The Vanguard Group, Inc.	Buy	2.26	Ordinary	22,374	22,374
28-Nov-2018	The Vanguard Group, Inc.	Buy	2.26	Ordinary	22,890	22,890
28-Nov-2018	The Vanguard Group, Inc.	Buy	2.26	Ordinary	27,461	27,461
30-Nov-2018	The Vanguard Group, Inc.	Buy	2.20	Ordinary	2,212	2,212
30-Nov-2018	The Vanguard Group, Inc.	Buy	2.20	Ordinary	129,313	129,313
30-Nov-2018	The Vanguard Group, Inc.	Sell	2.19	Ordinary	(93,489)	(93,489)
3-Dec-2018	The Vanguard Group, Inc.	Buy	2.23	Ordinary	4,424	4,424
4-Dec-2018	The Vanguard Group, Inc.	Buy	2.21	Ordinary	40,240	40,240
4-Dec-2018	The Vanguard Group, Inc.	Buy	2.21	Ordinary	36,624	36,624
4-Dec-2018	The Vanguard Group, Inc.	Buy	2.23	Ordinary	37,558	37,558
5-Dec-2018	The Vanguard Group, Inc.	Buy	2.21	Ordinary	5,165	5,165
5-Dec-2018	The Vanguard Group, Inc.	Buy	2.21	Ordinary	116,737	116,737
5-Dec-2018	The Vanguard Group, Inc.	Buy	2.20	Ordinary	115,957	115,957
5-Dec-2018	The Vanguard Group, Inc.	Buy	2.20	Ordinary	18,556	18,556
6-Dec-2018	The Vanguard Group, Inc.	Buy	2.30	Ordinary	30,180	30,180
6-Dec-2018	The Vanguard Group, Inc.	Buy	2.28	Ordinary	25,046	25,046
6-Dec-2018	The Vanguard Group, Inc.	Sell	2.28	Ordinary	(3,791)	(3,791)

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
7-Dec-2018	The Vanguard Group, Inc.	Buy	2.33	Ordinary	320,368	320,368
7-Dec-2018	The Vanguard Group, Inc.	Buy	2.29	Ordinary	36,624	36,624
7-Dec-2018	The Vanguard Group, Inc.	Buy	2.29	Ordinary	32,046	32,046
7-Dec-2018	The Vanguard Group, Inc.	Buy	2.33	Ordinary	18,526	18,526
10-Dec-2018	The Vanguard Group, Inc.	Buy	2.25	Ordinary	19,892	19,892
11-Dec-2018	The Vanguard Group, Inc.	Buy	2.28	Ordinary	36,624	36,624
11-Dec-2018	The Vanguard Group, Inc.	Buy	2.28	Ordinary	27,468	27,468
12-Dec-2018	The Vanguard Group, Inc.	Buy	2.31	Ordinary	77,826	77,826
12-Dec-2018	The Vanguard Group, Inc.	Buy	2.31	Ordinary	27,468	27,468
12-Dec-2018	The Vanguard Group, Inc.	Buy	2.31	Ordinary	27,468	27,468
12-Dec-2018	The Vanguard Group, Inc.	Buy	2.31	Ordinary	62,103	62,103
12-Dec-2018	The Vanguard Group, Inc.	Buy	2.31	Ordinary	15,692	15,692
13-Dec-2018	The Vanguard Group, Inc.	Buy	2.27	Ordinary	27,461	27,461
14-Dec-2018	The Vanguard Group, Inc.	Buy	2.30	Ordinary	27,468	27,468
14-Dec-2018	The Vanguard Group, Inc.	Buy	2.30	Ordinary	11,769	11,769
14-Dec-2018	The Vanguard Group, Inc.	Sell	2.30	Ordinary	(3,049)	(3,049)
17-Dec-2018	The Vanguard Group, Inc.	Buy	2.29	Ordinary	54,936	54,936
17-Dec-2018	The Vanguard Group, Inc.	Buy	2.29	Ordinary	39,230	39,230
19-Dec-2018	The Vanguard Group, Inc.	Sell	2.29	Ordinary	(124,206)	(124,206)
20-Dec-2018	The Vanguard Group, Inc.	Buy	2.31	Ordinary	36,624	36,624
20-Dec-2018	The Vanguard Group, Inc.	Sell	2.33	Ordinary	(148,961)	(148,961)
20-Dec-2018	The Vanguard Group, Inc.	Buy	2.33	Ordinary	28,684	28,684
21-Dec-2018	The Vanguard Group, Inc.	Sell	2.29	Ordinary	(2,426)	(2,426)
21-Dec-2018	The Vanguard Group, Inc.	Sell	2.29	Ordinary	(484,916)	(484,916)
24-Dec-2018	The Vanguard Group, Inc.	Buy	2.29	Ordinary	38,570	38,570
24-Dec-2018	The Vanguard Group, Inc.	Buy	2.29	Ordinary	61,712	61,712
26-Dec-2018	The Vanguard Group, Inc.	Buy	2.34	Ordinary	23,142	23,142
27-Dec-2018	The Vanguard Group, Inc.	Buy	2.33	Ordinary	11,345	11,345
27-Dec-2018	The Vanguard Group, Inc.	Buy	2.33	Ordinary	11,571	11,571
27-Dec-2018	The Vanguard Group, Inc.	Buy	2.33	Ordinary	19,285	19,285
27-Dec-2018	The Vanguard Group, Inc.	Buy	2.33	Ordinary	57,855	57,855
27-Dec-2018	The Vanguard Group, Inc.	Buy	2.33	Ordinary	4,424	4,424
28-Dec-2018	The Vanguard Group, Inc.	Buy	2.29	Ordinary	103,512	103,512
31-Dec-2018	The Vanguard Group, Inc.	Buy	2.24	Ordinary	54,456	54,456
2-Jan-2019	The Vanguard Group, Inc.	Buy	2.21	Ordinary	15,883	15,883
2-Jan-2019	The Vanguard Group, Inc.	Buy	2.21	Ordinary	40,842	40,842
2-Jan-2019	The Vanguard Group, Inc.	Buy	2.23	Ordinary	4,376	4,376
2-Jan-2019	The Vanguard Group, Inc.	Buy	2.21	Ordinary	26,999	26,999
2-Jan-2019	The Vanguard Group, Inc.	Buy	2.21	Ordinary	23,142	23,142
2-Jan-2019	The Vanguard Group, Inc.	Buy	2.20	Ordinary	23,956	23,956
3-Jan-2019	The Vanguard Group, Inc.	Buy	2.20	Ordinary	19,285	19,285
7-Jan-2019	The Vanguard Group, Inc.	Buy	2.20	Ordinary	7,714	7,714
8-Jan-2019	The Vanguard Group, Inc.	Sell	2.21	Ordinary	(2,546)	(2,546)
8-Jan-2019	The Vanguard Group, Inc.	Buy	2.23	Ordinary	11,060	11,060
8-Jan-2019	The Vanguard Group, Inc.	Buy	2.22	Ordinary	57,214	57,214
10-Jan-2019	The Vanguard Group, Inc.	Buy	2.30	Ordinary	36,304	36,304
10-Jan-2019	The Vanguard Group, Inc.	Buy	2.30	Ordinary	39,868	39,868
10-Jan-2019	The Vanguard Group, Inc.	Buy	2.28	Ordinary	19,144	19,144
11-Jan-2019	The Vanguard Group, Inc.	Buy	2.31	Ordinary	13,614	13,614
11-Jan-2019	The Vanguard Group, Inc.	Buy	2.31	Ordinary	79,736	79,736
11-Jan-2019	The Vanguard Group, Inc.	Buy	2.31	Ordinary	4,424	4,424
15-Jan-2019	The Vanguard Group, Inc.	Sell	2.30	Ordinary	(19,934)	(19,934)
16-Jan-2019	The Vanguard Group, Inc.	Sell	2.31	Ordinary	(398,680)	(398,680)
17-Jan-2019	The Vanguard Group, Inc.	Sell	2.31	Ordinary	(60,619)	(60,619)
17-Jan-2019	The Vanguard Group, Inc.	Sell	2.30	Ordinary	(26,148)	(26,148)
17-Jan-2019	The Vanguard Group, Inc.	Buy	2.30	Ordinary	5,538	5,538
17-Jan-2019	The Vanguard Group, Inc.	Sell	2.30	Ordinary	(29,169)	(29,169)
18-Jan-2019	The Vanguard Group, Inc.	Sell	2.26	Ordinary	(15,137)	(15,137)
22-Jan-2019	The Vanguard Group, Inc.	Sell	2.26	Ordinary	(26,148)	(26,148)
22-Jan-2019	The Vanguard Group, Inc.	Buy	2.26	Ordinary	11,275	11,275
22-Jan-2019	The Vanguard Group, Inc.	Buy	2.26	Ordinary	1,028	1,028
23-Jan-2019	The Vanguard Group, Inc.	Sell	2.27	Ordinary	(56,654)	(56,654)
23-Jan-2019	The Vanguard Group, Inc.	Buy	2.27	Ordinary	5,294	5,294
24-Jan-2019	The Vanguard Group, Inc.	Sell	2.33	Ordinary	(56,654)	(56,654)
24-Jan-2019	The Vanguard Group, Inc.	Buy	2.32	Ordinary	60,268	60,268
25-Jan-2019	The Vanguard Group, Inc.	Buy	2.38	Ordinary	3,730	3,730
28-Jan-2019	The Vanguard Group, Inc.	Sell	2.38	Ordinary	(23,142)	(23,142)
29-Jan-2019	The Vanguard Group, Inc.	Sell	2.41	Ordinary	(82,802)	(82,802)
29-Jan-2019	The Vanguard Group, Inc.	Sell	2.41	Ordinary	(34,864)	(34,864)

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
29-Jan-2019	The Vanguard Group, Inc.	Sell	2.41	Ordinary	(34,864)	(34,864)
29-Jan-2019	The Vanguard Group, Inc.	Sell	2.39	Ordinary	(2,425)	(2,425)
29-Jan-2019	The Vanguard Group, Inc.	Sell	2.41	Ordinary	(15,428)	(15,428)
30-Jan-2019	The Vanguard Group, Inc.	Buy	2.42	Ordinary	15,883	15,883
30-Jan-2019	The Vanguard Group, Inc.	Sell	2.42	Ordinary	(23,142)	(23,142)
30-Jan-2019	The Vanguard Group, Inc.	Buy	2.41	Ordinary	102,557	102,557
31-Jan-2019	The Vanguard Group, Inc.	Buy	2.42	Ordinary	119,271	119,271
31-Jan-2019	The Vanguard Group, Inc.	Sell	2.41	Ordinary	(65,569)	(65,569)
1-Feb-2019	The Vanguard Group, Inc.	Sell	2.40	Ordinary	(99,670)	(99,670)
1-Feb-2019	The Vanguard Group, Inc.	Sell	2.40	Ordinary	(79,736)	(79,736)
5-Feb-2019	The Vanguard Group, Inc.	Buy	2.46	Ordinary	24,959	24,959
7-Feb-2019	The Vanguard Group, Inc.	Sell	2.54	Ordinary	(28,872)	(28,872)
7-Feb-2019	The Vanguard Group, Inc.	Buy	2.54	Ordinary	45,380	45,380
7-Feb-2019	The Vanguard Group, Inc.	Sell	2.54	Ordinary	(15,428)	(15,428)
7-Feb-2019	The Vanguard Group, Inc.	Sell	2.54	Ordinary	(15,428)	(15,428)
8-Feb-2019	The Vanguard Group, Inc.	Sell	2.55	Ordinary	(50,141)	(50,141)
8-Feb-2019	The Vanguard Group, Inc.	Buy	2.55	Ordinary	46,884	46,884
11-Feb-2019	The Vanguard Group, Inc.	Sell	2.56	Ordinary	(34,713)	(34,713)
11-Feb-2019	The Vanguard Group, Inc.	Buy	2.55	Ordinary	74,154	74,154
12-Feb-2019	The Vanguard Group, Inc.	Sell	2.57	Ordinary	(193,221)	(193,221)
13-Feb-2019	The Vanguard Group, Inc.	Sell	2.55	Ordinary	(23,142)	(23,142)
15-Feb-2019	The Vanguard Group, Inc.	Sell	2.57	Ordinary	(884)	(884)
18-Feb-2019	The Vanguard Group, Inc.	Buy	2.59	Ordinary	13,764	13,764
20-Feb-2019	The Vanguard Group, Inc.	Buy	2.59	Ordinary	131,208	131,208
20-Feb-2019	The Vanguard Group, Inc.	Buy	2.60	Ordinary	62,981	62,981
20-Feb-2019	The Vanguard Group, Inc.	Sell	2.61	Ordinary	(9,823)	(9,823)
21-Feb-2019	The Vanguard Group, Inc.	Sell	2.57	Ordinary	(19,285)	(19,285)
25-Feb-2019	The Vanguard Group, Inc.	Buy	2.61	Ordinary	19,934	19,934
26-Feb-2019	The Vanguard Group, Inc.	Buy	2.58	Ordinary	21,790	21,790
28-Feb-2019	The Vanguard Group, Inc.	Sell	2.57	Ordinary	(3,601)	(3,601)
28-Feb-2019	The Vanguard Group, Inc.	Sell	2.57	Ordinary	(107,815)	(107,815)
1-Mar-2019	The Vanguard Group, Inc.	Buy	2.61	Ordinary	59,802	59,802
1-Mar-2019	The Vanguard Group, Inc.	Buy	2.61	Ordinary	8,651	8,651
1-Mar-2019	The Vanguard Group, Inc.	Sell	2.61	Ordinary	(120,177)	(120,177)
1-Mar-2019	The Vanguard Group, Inc.	Sell	2.61	Ordinary	(13,617)	(13,617)
1-Mar-2019	The Vanguard Group, Inc.	Buy	2.61	Ordinary	3,056	3,056
4-Mar-2019	The Vanguard Group, Inc.	Buy	2.62	Ordinary	109,386	109,386
5-Mar-2019	The Vanguard Group, Inc.	Buy	2.64	Ordinary	26,148	26,148
5-Mar-2019	The Vanguard Group, Inc.	Buy	2.64	Ordinary	99,670	99,670
5-Mar-2019	The Vanguard Group, Inc.	Sell	2.64	Ordinary	(13,499)	(13,499)
6-Mar-2019	The Vanguard Group, Inc.	Buy	2.65	Ordinary	3,782	3,782
8-Mar-2019	The Vanguard Group, Inc.	Buy	2.67	Ordinary	21,790	21,790
8-Mar-2019	The Vanguard Group, Inc.	Buy	2.67	Ordinary	5,493	5,493
8-Mar-2019	The Vanguard Group, Inc.	Buy	2.67	Ordinary	8,335	8,335
12-Mar-2019	The Vanguard Group, Inc.	Sell	2.67	Ordinary	(21,119)	(21,119)
15-Mar-2019	The Vanguard Group, Inc.	Sell	2.75	Ordinary	(43,841)	(43,841)
15-Mar-2019	The Vanguard Group, Inc.	Sell	2.75	Ordinary	(361,632)	(361,632)
15-Mar-2019	The Vanguard Group, Inc.	Sell	2.75	Ordinary	(15,203)	(15,203)
15-Mar-2019	The Vanguard Group, Inc.	Buy	2.75	Ordinary	2,750	2,750
15-Mar-2019	The Vanguard Group, Inc.	Buy	2.73	Ordinary	8,934	8,934
18-Mar-2019	The Vanguard Group, Inc.	Buy	2.71	Ordinary	31,570	31,570
19-Mar-2019	The Vanguard Group, Inc.	Buy	2.70	Ordinary	25,842	25,842
20-Mar-2019	The Vanguard Group, Inc.	Buy	2.73	Ordinary	13,074	13,074
27-Mar-2019	The Vanguard Group, Inc.	Sell	2.79	Ordinary	(2,361)	(2,361)
27-Mar-2019	The Vanguard Group, Inc.	Buy	2.76	Ordinary	78,816	78,816
28-Mar-2019	The Vanguard Group, Inc.	Sell	2.77	Ordinary	(12,547)	(12,547)
29-Mar-2019	The Vanguard Group, Inc.	Buy	2.75	Ordinary	255,346	255,346
29-Mar-2019	The Vanguard Group, Inc.	Sell	2.75	Ordinary	(47,727)	(47,727)
1-Apr-2019	The Vanguard Group, Inc.	Buy	2.74	Ordinary	17,432	17,432
4-Apr-2019	The Vanguard Group, Inc.	Buy	2.77	Ordinary	163,805	163,805
4-Apr-2019	The Vanguard Group, Inc.	Buy	2.74	Ordinary	7,147	7,147
4-Apr-2019	The Vanguard Group, Inc.	Sell	2.74	Ordinary	(27,972)	(27,972)
5-Apr-2019	The Vanguard Group, Inc.	Buy	2.72	Ordinary	45,100	45,100
5-Apr-2019	The Vanguard Group, Inc.	Buy	2.72	Ordinary	59,112	59,112
5-Apr-2019	The Vanguard Group, Inc.	Buy	2.72	Ordinary	19,704	19,704
9-Apr-2019	The Vanguard Group, Inc.	Sell	2.74	Ordinary	(21,730)	(21,730)
10-Apr-2019	The Vanguard Group, Inc.	Buy	2.76	Ordinary	87,966	87,966
15-Apr-2019	The Vanguard Group, Inc.	Sell	2.83	Ordinary	(5,185,000)	(5,185,000)
15-Apr-2019	The Vanguard Group, Inc.	Sell	2.83	Ordinary	(2,010,000)	(2,010,000)

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
23-Apr-2019	The Vanguard Group, Inc.	Sell	2.81	Ordinary	(665,232)	(665,232)
24-Apr-2019	The Vanguard Group, Inc.	Sell	2.83	Ordinary	(834,768)	(834,768)
26-Apr-2019	The Vanguard Group, Inc.	Sell	2.89	Ordinary	(966)	(966)
29-Apr-2019	The Vanguard Group, Inc.	Buy	2.85	Ordinary	39,408	39,408
3-May-2019	The Vanguard Group, Inc.	Buy	2.80	Ordinary	7,147	7,147
7-May-2019	The Vanguard Group, Inc.	Buy	2.83	Ordinary	12,560	12,560
7-May-2019	The Vanguard Group, Inc.	Buy	2.83	Ordinary	5,000	5,000
7-May-2019	The Vanguard Group, Inc.	Buy	2.85	Ordinary	7,147	7,147
8-May-2019	The Vanguard Group, Inc.	Buy	2.83	Ordinary	78,816	78,816
9-May-2019	The Vanguard Group, Inc.	Buy	2.86	Ordinary	26,148	26,148
10-May-2019	The Vanguard Group, Inc.	Sell	2.87	Ordinary	(32,408)	(32,408)
10-May-2019	The Vanguard Group, Inc.	Buy	2.87	Ordinary	4,400	4,400
13-May-2019	The Vanguard Group, Inc.	Buy	2.91	Ordinary	12,996	12,996
14-May-2019	The Vanguard Group, Inc.	Buy	2.91	Ordinary	123,373	123,373
15-May-2019	The Vanguard Group, Inc.	Buy	2.91	Ordinary	1,234,901	1,234,901
15-May-2019	The Vanguard Group, Inc.	Buy	2.92	Ordinary	48,300	48,300
16-May-2019	The Vanguard Group, Inc.	Buy	2.94	Ordinary	664,808	664,808
16-May-2019	The Vanguard Group, Inc.	Buy	2.95	Ordinary	570,195	570,195
20-May-2019	The Vanguard Group, Inc.	Buy	3.00	Ordinary	5,000	5,000
21-May-2019	The Vanguard Group, Inc.	Buy	3.06	Ordinary	16,933	16,933
22-May-2019	The Vanguard Group, Inc.	Buy	3.09	Ordinary	78,816	78,816
22-May-2019	The Vanguard Group, Inc.	Buy	3.09	Ordinary	17,351	17,351
28-May-2019	The Vanguard Group, Inc.	Buy	3.11	Ordinary	338,059	338,059
28-May-2019	The Vanguard Group, Inc.	Buy	3.11	Ordinary	133,175	133,175
28-May-2019	The Vanguard Group, Inc.	Buy	3.07	Ordinary	21,790	21,790
28-May-2019	The Vanguard Group, Inc.	Buy	3.11	Ordinary	102,442	102,442
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	256,518	256,518
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	3,750,439	3,750,439
30-May-2019	The Vanguard Group, Inc.	Buy	3.01	Ordinary	2,961,941	2,961,941
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	1,629,474	1,629,474
30-May-2019	The Vanguard Group, Inc.	Buy	3.01	Ordinary	1,166,825	1,166,825
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	85,693	85,693
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	17,754	17,754
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	1,518,630	1,518,630
30-May-2019	The Vanguard Group, Inc.	Buy	3.01	Ordinary	897,558	897,558
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	451,360	451,360
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	3,715	3,715
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	104,313	104,313
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	132,832	132,832
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	15,953	15,953
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	37,146	37,146
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	2,114	2,114
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	67,919	67,919
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	519,472	519,472
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	4,768	4,768
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	2,834	2,834
30-May-2019	The Vanguard Group, Inc.	Sell	2.99	Ordinary	(2,382)	(2,382)
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	10,024	10,024
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	1,005	1,005
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	8,014	8,014
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	52,504	52,504
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	839	839
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	6,838	6,838
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	4,138	4,138
30-May-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	5,280	5,280
31-May-2019	The Vanguard Group, Inc.	Sell	3.03	Ordinary	(100,903)	(100,903)
3-Jun-2019	The Vanguard Group, Inc.	Buy	3.08	Ordinary	5,000	5,000
4-Jun-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	2,834	2,834
4-Jun-2019	The Vanguard Group, Inc.	Sell	2.97	Ordinary	(2,834)	(2,834)
4-Jun-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	10,024	10,024
4-Jun-2019	The Vanguard Group, Inc.	Sell	2.97	Ordinary	(10,024)	(10,024)
4-Jun-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	1,005	1,005
4-Jun-2019	The Vanguard Group, Inc.	Sell	2.97	Ordinary	(1,005)	(1,005)
4-Jun-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	8,014	8,014
4-Jun-2019	The Vanguard Group, Inc.	Sell	2.97	Ordinary	(8,014)	(8,014)
4-Jun-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	52,504	52,504
4-Jun-2019	The Vanguard Group, Inc.	Sell	2.97	Ordinary	(52,504)	(52,504)
4-Jun-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	839	839
4-Jun-2019	The Vanguard Group, Inc.	Sell	2.97	Ordinary	(839)	(839)

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-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	6,838	6,838
4-Jun-2019	The Vanguard Group, Inc.	Sell	2.97	Ordinary	(6,838)	(6,838)
4-Jun-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	4,138	4,138
4-Jun-2019	The Vanguard Group, Inc.	Sell	2.97	Ordinary	(4,138)	(4,138)
4-Jun-2019	The Vanguard Group, Inc.	Buy	2.97	Ordinary	5,280	5,280
4-Jun-2019	The Vanguard Group, Inc.	Sell	2.97	Ordinary	(5,280)	(5,280)
5-Jun-2019	The Vanguard Group, Inc.	Sell	3.09	Ordinary	(2,571)	(2,571)
5-Jun-2019	The Vanguard Group, Inc.	Sell	3.05	Ordinary	(7,808)	(7,808)
6-Jun-2019	The Vanguard Group, Inc.	Buy	3.11	Ordinary	787,578	787,578
6-Jun-2019	The Vanguard Group, Inc.	Sell	3.11	Ordinary	(98,296)	(98,296)
7-Jun-2019	The Vanguard Group, Inc.	Buy	3.13	Ordinary	179,659	179,659
10-Jun-2019	The Vanguard Group, Inc.	Buy	3.13	Ordinary	6,000	6,000
11-Jun-2019	The Vanguard Group, Inc.	Buy	3.16	Ordinary	801,779	801,779
12-Jun-2019	The Vanguard Group, Inc.	Buy	3.15	Ordinary	6,000	6,000
12-Jun-2019	The Vanguard Group, Inc.	Sell	3.15	Ordinary	(109,733)	(109,733)
12-Jun-2019	The Vanguard Group, Inc.	Buy	3.15	Ordinary	2,862	2,862
13-Jun-2019	The Vanguard Group, Inc.	Buy	3.19	Ordinary	2,000	2,000
14-Jun-2019	The Vanguard Group, Inc.	Sell	3.21	Ordinary	(80,181)	(80,181)
17-Jun-2019	The Vanguard Group, Inc.	Sell	3.17	Ordinary	(32,543)	(32,543)
18-Jun-2019	The Vanguard Group, Inc.	Sell	3.18	Ordinary	(73,914)	(73,914)
18-Jun-2019	The Vanguard Group, Inc.	Buy	3.18	Ordinary	279,356	279,356
19-Jun-2019	The Vanguard Group, Inc.	Buy	3.20	Ordinary	90,379	90,379
20-Jun-2019	The Vanguard Group, Inc.	Buy	3.16	Ordinary	5,000	5,000
21-Jun-2019	The Vanguard Group, Inc.	Buy	3.16	Ordinary	1,406,251	1,406,251
21-Jun-2019	The Vanguard Group, Inc.	Buy	3.15	Ordinary	1,051,278	1,051,278
21-Jun-2019	The Vanguard Group, Inc.	Buy	3.15	Ordinary	2,500	2,500
21-Jun-2019	The Vanguard Group, Inc.	Sell	3.15	Ordinary	(1,159,896)	(1,159,896)
21-Jun-2019	The Vanguard Group, Inc.	Buy	3.15	Ordinary	5,483	5,483
21-Jun-2019	The Vanguard Group, Inc.	Buy	3.16	Ordinary	7,336	7,336
25-Jun-2019	The Vanguard Group, Inc.	Sell	3.22	Ordinary	(7,461)	(7,461)
25-Jun-2019	The Vanguard Group, Inc.	Buy	3.22	Ordinary	4,500	4,500
25-Jun-2019	The Vanguard Group, Inc.	Buy	3.22	Ordinary	3,000	3,000
25-Jun-2019	The Vanguard Group, Inc.	Buy	3.25	Ordinary	9,180	9,180
26-Jun-2019	The Vanguard Group, Inc.	Buy	3.21	Ordinary	6,000	6,000
26-Jun-2019	The Vanguard Group, Inc.	Buy	3.21	Ordinary	3,500	3,500
26-Jun-2019	The Vanguard Group, Inc.	Buy	3.23	Ordinary	7,808	7,808
26-Jun-2019	The Vanguard Group, Inc.	Buy	3.23	Ordinary	10,095	10,095
27-Jun-2019	The Vanguard Group, Inc.	Buy	3.15	Ordinary	281,129	281,129
28-Jun-2019	The Vanguard Group, Inc.	Buy	3.13	Ordinary	360,580	360,580
1-Jul-2019	The Vanguard Group, Inc.	Buy	3.15	Ordinary	57,023	57,023
2-Jul-2019	The Vanguard Group, Inc.	Buy	3.18	Ordinary	4,500	4,500
2-Jul-2019	The Vanguard Group, Inc.	Buy	3.16	Ordinary	72,310	72,310
3-Jul-2019	The Vanguard Group, Inc.	Buy	3.17	Ordinary	48,971	48,971
4-Jul-2019	The Vanguard Group, Inc.	Buy	3.26	Ordinary	34,979	34,979
5-Jul-2019	The Vanguard Group, Inc.	Buy	3.35	Ordinary	17,432	17,432
9-Jul-2019	The Vanguard Group, Inc.	Buy	3.25	Ordinary	5,000	5,000
10-Jul-2019	The Vanguard Group, Inc.	Buy	3.26	Ordinary	19,870	19,870
12-Jul-2019	The Vanguard Group, Inc.	Buy	3.28	Ordinary	7,629	7,629
12-Jul-2019	The Vanguard Group, Inc.	Sell	3.30	Ordinary	(59,501)	(59,501)
15-Jul-2019	The Vanguard Group, Inc.	Buy	3.23	Ordinary	26,148	26,148
15-Jul-2019	The Vanguard Group, Inc.	Sell	3.23	Ordinary	(20,706)	(20,706)
17-Jul-2019	The Vanguard Group, Inc.	Buy	3.17	Ordinary	2,500	2,500
17-Jul-2019	The Vanguard Group, Inc.	Buy	3.17	Ordinary	3,500	3,500
17-Jul-2019	The Vanguard Group, Inc.	Buy	3.17	Ordinary	5,000	5,000
17-Jul-2019	The Vanguard Group, Inc.	Sell	3.22	Ordinary	(1,000,000)	(1,000,000)
18-Jul-2019	The Vanguard Group, Inc.	Sell	3.22	Ordinary	(42,484)	(42,484)
18-Jul-2019	The Vanguard Group, Inc.	Sell	3.22	Ordinary	(191,178)	(191,178)
18-Jul-2019	The Vanguard Group, Inc.	Sell	3.22	Ordinary	(127,452)	(127,452)
18-Jul-2019	The Vanguard Group, Inc.	Sell	3.18	Ordinary	(14,008)	(14,008)
18-Jul-2019	The Vanguard Group, Inc.	Buy	3.21	Ordinary	9,686	9,686
19-Jul-2019	The Vanguard Group, Inc.	Sell	3.19	Ordinary	(254,904)	(254,904)
22-Jul-2019	The Vanguard Group, Inc.	Buy	3.18	Ordinary	5,000	5,000
22-Jul-2019	The Vanguard Group, Inc.	Buy	3.18	Ordinary	21,790	21,790
22-Jul-2019	The Vanguard Group, Inc.	Buy	3.18	Ordinary	21,790	21,790
22-Jul-2019	The Vanguard Group, Inc.	Sell	3.18	Ordinary	(84,968)	(84,968)
22-Jul-2019	The Vanguard Group, Inc.	Sell	3.18	Ordinary	(127,452)	(127,452)
22-Jul-2019	The Vanguard Group, Inc.	Sell	3.18	Ordinary	(68,817)	(68,817)
23-Jul-2019	The Vanguard Group, Inc.	Buy	3.25	Ordinary	5,000	5,000
25-Jul-2019	The Vanguard Group, Inc.	Sell	3.24	Ordinary	(106,210)	(106,210)

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-Jul-2019	The Vanguard Group, Inc.	Buy	3.23	Ordinary	4,500	4,500
26-Jul-2019	The Vanguard Group, Inc.	Sell	3.22	Ordinary	(15,336)	(15,336)
29-Jul-2019	The Vanguard Group, Inc.	Sell	3.21	Ordinary	(42,484)	(42,484)
29-Jul-2019	The Vanguard Group, Inc.	Sell	3.21	Ordinary	(84,690)	(84,690)
30-Jul-2019	The Vanguard Group, Inc.	Sell	3.25	Ordinary	(11,056)	(11,056)
30-Jul-2019	The Vanguard Group, Inc.	Buy	3.24	Ordinary	7,808	7,808
30-Jul-2019	The Vanguard Group, Inc.	Buy	3.24	Ordinary	50,508	50,508
31-Jul-2019	The Vanguard Group, Inc.	Buy	3.21	Ordinary	4,500	4,500
1-Aug-2019	The Vanguard Group, Inc.	Buy	3.23	Ordinary	39,222	39,222
1-Aug-2019	The Vanguard Group, Inc.	Sell	3.23	Ordinary	(146,599)	(146,599)
2-Aug-2019	The Vanguard Group, Inc.	Buy	3.31	Ordinary	281,508	281,508
5-Aug-2019	The Vanguard Group, Inc.	Buy	3.27	Ordinary	5,000	5,000
5-Aug-2019	The Vanguard Group, Inc.	Sell	3.27	Ordinary	(63,726)	(63,726)
6-Aug-2019	The Vanguard Group, Inc.	Buy	3.17	Ordinary	22,021	22,021
7-Aug-2019	The Vanguard Group, Inc.	Sell	3.11	Ordinary	(2,764)	(2,764)
8-Aug-2019	The Vanguard Group, Inc.	Sell	3.43	Ordinary	(14,925)	(14,925)
8-Aug-2019	The Vanguard Group, Inc.	Buy	3.27	Ordinary	463,589	463,589
8-Aug-2019	The Vanguard Group, Inc.	Buy	3.40	Ordinary	5,884	5,884
12-Aug-2019	The Vanguard Group, Inc.	Buy	3.26	Ordinary	8,000	8,000
13-Aug-2019	The Vanguard Group, Inc.	Sell	3.19	Ordinary	(20,895)	(20,895)
14-Aug-2019	The Vanguard Group, Inc.	Sell	3.18	Ordinary	(16,297)	(16,297)
15-Aug-2019	The Vanguard Group, Inc.	Sell	3.12	Ordinary	(17,910)	(17,910)
15-Aug-2019	The Vanguard Group, Inc.	Sell	3.13	Ordinary	(375,000)	(375,000)
15-Aug-2019	The Vanguard Group, Inc.	Buy	3.15	Ordinary	76	76
19-Aug-2019	The Vanguard Group, Inc.	Sell	3.16	Ordinary	(1,121,076)	(1,121,076)
19-Aug-2019	The Vanguard Group, Inc.	Buy	3.15	Ordinary	42,046	42,046
19-Aug-2019	The Vanguard Group, Inc.	Sell	3.15	Ordinary	(3,348)	(3,348)
20-Aug-2019	The Vanguard Group, Inc.	Sell	3.20	Ordinary	(106,035)	(106,035)
22-Aug-2019	The Vanguard Group, Inc.	Buy	3.13	Ordinary	10,000	10,000
22-Aug-2019	The Vanguard Group, Inc.	Buy	3.16	Ordinary	11,002	11,002
27-Aug-2019	The Vanguard Group, Inc.	Buy	3.17	Ordinary	1,044,026	1,044,026
27-Aug-2019	The Vanguard Group, Inc.	Sell	3.17	Ordinary	(11,804)	(11,804)
28-Aug-2019	The Vanguard Group, Inc.	Sell	3.18	Ordinary	(37,319)	(37,319)
29-Aug-2019	The Vanguard Group, Inc.	Buy	3.15	Ordinary	58,485	58,485
30-Aug-2019	The Vanguard Group, Inc.	Buy	3.18	Ordinary	691,527	691,527
2-Sep-2019	The Vanguard Group, Inc.	Buy	3.18	Ordinary	39,188	39,188
5-Sep-2019	The Vanguard Group, Inc.	Buy	3.14	Ordinary	169,856	169,856
5-Sep-2019	The Vanguard Group, Inc.	Buy	3.14	Ordinary	212,320	212,320
6-Sep-2019	The Vanguard Group, Inc.	Buy	3.13	Ordinary	113,564	113,564
6-Sep-2019	The Vanguard Group, Inc.	Buy	3.06	Ordinary	84,928	84,928
6-Sep-2019	The Vanguard Group, Inc.	Sell	3.14	Ordinary	(13,773)	(13,773)
9-Sep-2019	The Vanguard Group, Inc.	Buy	3.08	Ordinary	6,500	6,500
10-Sep-2019	The Vanguard Group, Inc.	Sell	3.04	Ordinary	(1,279)	(1,279)
11-Sep-2019	The Vanguard Group, Inc.	Buy	3.02	Ordinary	6,500	6,500
12-Sep-2019	The Vanguard Group, Inc.	Buy	3.04	Ordinary	5,000	5,000
16-Sep-2019	The Vanguard Group, Inc.	Buy	3.05	Ordinary	9,000	9,000
16-Sep-2019	The Vanguard Group, Inc.	Buy	3.04	Ordinary	21,244	21,244
17-Sep-2019	The Vanguard Group, Inc.	Sell	3.09	Ordinary	(63,696)	(63,696)
18-Sep-2019	The Vanguard Group, Inc.	Buy	3.10	Ordinary	4,500	4,500
18-Sep-2019	The Vanguard Group, Inc.	Sell	3.10	Ordinary	(21,232)	(21,232)
18-Sep-2019	The Vanguard Group, Inc.	Sell	3.10	Ordinary	(127,392)	(127,392)
4-Jun-2018	Vanguard Investments Australia Ltd.	Buy	2.30	Ordinary	314,477	314,477
4-Jun-2018	Vanguard Investments Australia Ltd.	Buy	2.30	Ordinary	2,448,685	2,448,685
6-Jun-2018	Vanguard Investments Australia Ltd.	Buy	2.23	Ordinary	199,000	199,000
8-Jun-2018	Vanguard Investments Australia Ltd.	Buy	2.19	Ordinary	21,567	21,567
13-Jun-2018	Vanguard Investments Australia Ltd.	Sell	2.21	Ordinary	(52,230)	(52,230)
14-Jun-2018	Vanguard Investments Australia Ltd.	Buy	2.23	Ordinary	30,810	30,810
15-Jun-2018	Vanguard Investments Australia Ltd.	Buy	2.23	Ordinary	33,618	33,618
15-Jun-2018	Vanguard Investments Australia Ltd.	Sell	2.23	Ordinary	(710,762)	(710,762)
15-Jun-2018	Vanguard Investments Australia Ltd.	Buy	2.23	Ordinary	109,440	109,440
22-Jun-2018	Vanguard Investments Australia Ltd.	Sell	2.25	Ordinary	(11,219)	(11,219)
28-Jun-2018	Vanguard Investments Australia Ltd.	Buy	2.15	Ordinary	1,592,318	1,592,318
29-Jun-2018	Vanguard Investments Australia Ltd.	Buy	2.17	Ordinary	101,176	101,176
29-Jun-2018	Vanguard Investments Australia Ltd.	Sell	2.17	Ordinary	(175,908)	(175,908)
2-Jul-2018	Vanguard Investments Australia Ltd.	Sell	2.19	Ordinary	(9,288)	(9,288)
3-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.22	Ordinary	108,373	108,373
5-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.22	Ordinary	143,736	143,736
5-Jul-2018	Vanguard Investments Australia Ltd.	Sell	2.22	Ordinary	(13,641)	(13,641)
5-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.22	Ordinary	50,252	50,252

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
6-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.22	Ordinary	91,060	91,060
6-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.22	Ordinary	100,459	100,459
6-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.22	Ordinary	100,504	100,504
6-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.22	Ordinary	28,854	28,854
9-Jul-2018	Vanguard Investments Australia Ltd.	Sell	2.23	Ordinary	(25,662)	(25,662)
10-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.21	Ordinary	13,948	13,948
12-Jul-2018	Vanguard Investments Australia Ltd.	Sell	2.23	Ordinary	(500,329)	(500,329)
16-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.23	Ordinary	100,358	100,358
16-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.23	Ordinary	19,236	19,236
16-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.23	Ordinary	74,223	74,223
18-Jul-2018	Vanguard Investments Australia Ltd.	Sell	2.24	Ordinary	(29,987)	(29,987)
18-Jul-2018	Vanguard Investments Australia Ltd.	Sell	2.24	Ordinary	(21,724)	(21,724)
18-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.24	Ordinary	100,358	100,358
19-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.25	Ordinary	80,809	80,809
20-Jul-2018	Vanguard Investments Australia Ltd.	Sell	2.26	Ordinary	(13,454)	(13,454)
20-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.26	Ordinary	36,157	36,157
24-Jul-2018	Vanguard Investments Australia Ltd.	Sell	2.26	Ordinary	(8,865)	(8,865)
26-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.27	Ordinary	100,358	100,358
27-Jul-2018	Vanguard Investments Australia Ltd.	Buy	2.28	Ordinary	64,318	64,318
2-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.30	Ordinary	29,718	29,718
3-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.31	Ordinary	200,716	200,716
3-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.31	Ordinary	54,218	54,218
7-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.34	Ordinary	77,076	77,076
9-Aug-2018	Vanguard Investments Australia Ltd.	Sell	2.35	Ordinary	(8,693)	(8,693)
9-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.35	Ordinary	100,358	100,358
10-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.32	Ordinary	151,703	151,703
13-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.37	Ordinary	1,393	1,393
13-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.37	Ordinary	21,168	21,168
13-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.37	Ordinary	29,553	29,553
13-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.37	Ordinary	702,375	702,375
14-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.41	Ordinary	718,183	718,183
15-Aug-2018	Vanguard Investments Australia Ltd.	Sell	2.41	Ordinary	(9,150)	(9,150)
15-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.41	Ordinary	101,378	101,378
15-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.41	Ordinary	20,634	20,634
15-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.41	Ordinary	58,779	58,779
17-Aug-2018	Vanguard Investments Australia Ltd.	Sell	2.42	Ordinary	(11,504)	(11,504)
20-Aug-2018	Vanguard Investments Australia Ltd.	Sell	2.45	Ordinary	(90,871)	(90,871)
21-Aug-2018	Vanguard Investments Australia Ltd.	Sell	2.39	Ordinary	(8,338)	(8,338)
21-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.39	Ordinary	33,050	33,050
23-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.35	Ordinary	101,208	101,208
29-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.43	Ordinary	109,443	109,443
29-Aug-2018	Vanguard Investments Australia Ltd.	Buy	2.43	Ordinary	639,000	639,000
4-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.49	Ordinary	101,208	101,208
4-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.49	Ordinary	34,584	34,584
4-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.49	Ordinary	138,312	138,312
6-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.47	Ordinary	77,734	77,734
7-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.46	Ordinary	152,536	152,536
10-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.43	Ordinary	202,440	202,440
10-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.43	Ordinary	101,220	101,220
10-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.43	Ordinary	32,660	32,660
11-Sep-2018	Vanguard Investments Australia Ltd.	Sell	2.46	Ordinary	(38,546)	(38,546)
13-Sep-2018	Vanguard Investments Australia Ltd.	Sell	2.45	Ordinary	(11,267)	(11,267)
17-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.45	Ordinary	35,222	35,222
19-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.44	Ordinary	101,208	101,208
20-Sep-2018	Vanguard Investments Australia Ltd.	Sell	2.42	Ordinary	(11,958)	(11,958)
21-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.41	Ordinary	54,508	54,508
21-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.41	Ordinary	99,807	99,807
21-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.41	Ordinary	9,071	9,071
21-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.41	Ordinary	53,046	53,046
21-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.41	Ordinary	286,647	286,647
26-Sep-2018	Vanguard Investments Australia Ltd.	Sell	2.44	Ordinary	(17,194)	(17,194)
26-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.44	Ordinary	101,348	101,348
26-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.44	Ordinary	19,788	19,788
27-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.43	Ordinary	63,545	63,545
27-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.43	Ordinary	58,620	58,620
27-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.43	Ordinary	14,280	14,280
27-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.43	Ordinary	58,739	58,739
27-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.43	Ordinary	96,958	96,958
27-Sep-2018	Vanguard Investments Australia Ltd.	Buy	2.43	Ordinary	253,946	253,946

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-Sep-2018	Vanguard Investments Australia Ltd.	Sell	2.41	Ordinary	(8,297)	(8,297)
28-Sep-2018	Vanguard Investments Australia Ltd.	Sell	2.41	Ordinary	(481,423)	(481,423)
1-Oct-2018	Vanguard Investments Australia Ltd.	Buy	2.37	Ordinary	29,241	29,241
3-Oct-2018	Vanguard Investments Australia Ltd.	Buy	2.33	Ordinary	202,044	202,044
4-Oct-2018	Vanguard Investments Australia Ltd.	Sell	2.34	Ordinary	(5,952)	(5,952)
4-Oct-2018	Vanguard Investments Australia Ltd.	Buy	2.34	Ordinary	101,022	101,022
4-Oct-2018	Vanguard Investments Australia Ltd.	Sell	2.34	Ordinary	(243,458)	(243,458)
8-Oct-2018	Vanguard Investments Australia Ltd.	Buy	2.32	Ordinary	29,250	29,250
10-Oct-2018	Vanguard Investments Australia Ltd.	Sell	2.31	Ordinary	(33,975)	(33,975)
10-Oct-2018	Vanguard Investments Australia Ltd.	Sell	2.31	Ordinary	(30,150)	(30,150)
10-Oct-2018	Vanguard Investments Australia Ltd.	Sell	2.31	Ordinary	(289,522)	(289,522)
11-Oct-2018	Vanguard Investments Australia Ltd.	Sell	2.30	Ordinary	(21,207)	(21,207)
11-Oct-2018	Vanguard Investments Australia Ltd.	Buy	2.30	Ordinary	38,196	38,196
15-Oct-2018	Vanguard Investments Australia Ltd.	Buy	2.18	Ordinary	150,912	150,912
17-Oct-2018	Vanguard Investments Australia Ltd.	Buy	2.25	Ordinary	55,437	55,437
22-Oct-2018	Vanguard Investments Australia Ltd.	Sell	2.25	Ordinary	(32,987)	(32,987)
24-Oct-2018	Vanguard Investments Australia Ltd.	Sell	2.24	Ordinary	(16,605)	(16,605)
24-Oct-2018	Vanguard Investments Australia Ltd.	Buy	2.24	Ordinary	39,132	39,132
25-Oct-2018	Vanguard Investments Australia Ltd.	Buy	2.19	Ordinary	77,471	77,471
25-Oct-2018	Vanguard Investments Australia Ltd.	Sell	2.19	Ordinary	(20,821)	(20,821)
25-Oct-2018	Vanguard Investments Australia Ltd.	Buy	2.19	Ordinary	100,608	100,608
25-Oct-2018	Vanguard Investments Australia Ltd.	Buy	2.19	Ordinary	45,654	45,654
26-Oct-2018	Vanguard Investments Australia Ltd.	Buy	2.17	Ordinary	272,965	272,965
29-Oct-2018	Vanguard Investments Australia Ltd.	Sell	2.20	Ordinary	(15,131)	(15,131)
31-Oct-2018	Vanguard Investments Australia Ltd.	Sell	2.17	Ordinary	(251,520)	(251,520)
31-Oct-2018	Vanguard Investments Australia Ltd.	Buy	2.17	Ordinary	51,088	51,088
31-Oct-2018	Vanguard Investments Australia Ltd.	Buy	2.17	Ordinary	9,579	9,579
1-Nov-2018	Vanguard Investments Australia Ltd.	Sell	2.12	Ordinary	(127,676)	(127,676)
1-Nov-2018	Vanguard Investments Australia Ltd.	Buy	2.12	Ordinary	6,254	6,254
2-Nov-2018	Vanguard Investments Australia Ltd.	Buy	2.12	Ordinary	100,464	100,464
2-Nov-2018	Vanguard Investments Australia Ltd.	Buy	2.12	Ordinary	150,696	150,696
2-Nov-2018	Vanguard Investments Australia Ltd.	Buy	2.12	Ordinary	40,651	40,651
5-Nov-2018	Vanguard Investments Australia Ltd.	Sell	2.10	Ordinary	(17,708)	(17,708)
5-Nov-2018	Vanguard Investments Australia Ltd.	Buy	2.10	Ordinary	146,844	146,844
9-Nov-2018	Vanguard Investments Australia Ltd.	Buy	2.20	Ordinary	100,506	100,506
12-Nov-2018	Vanguard Investments Australia Ltd.	Buy	2.21	Ordinary	39,754	39,754
14-Nov-2018	Vanguard Investments Australia Ltd.	Sell	2.21	Ordinary	(622,560)	(622,560)
15-Nov-2018	Vanguard Investments Australia Ltd.	Sell	2.20	Ordinary	(29,165)	(29,165)
15-Nov-2018	Vanguard Investments Australia Ltd.	Sell	2.20	Ordinary	(28,917)	(28,917)
16-Nov-2018	Vanguard Investments Australia Ltd.	Buy	2.20	Ordinary	122,351	122,351
19-Nov-2018	Vanguard Investments Australia Ltd.	Sell	2.20	Ordinary	(140,930)	(140,930)
20-Nov-2018	Vanguard Investments Australia Ltd.	Sell	2.18	Ordinary	(17,262)	(17,262)
20-Nov-2018	Vanguard Investments Australia Ltd.	Sell	2.18	Ordinary	(144,882)	(144,882)
21-Nov-2018	Vanguard Investments Australia Ltd.	Buy	2.19	Ordinary	56,781	56,781
22-Nov-2018	Vanguard Investments Australia Ltd.	Buy	2.21	Ordinary	42,910	42,910
23-Nov-2018	Vanguard Investments Australia Ltd.	Sell	2.23	Ordinary	(135,168)	(135,168)
23-Nov-2018	Vanguard Investments Australia Ltd.	Buy	2.23	Ordinary	70,190	70,190
27-Nov-2018	Vanguard Investments Australia Ltd.	Sell	2.23	Ordinary	(22,086)	(22,086)
29-Nov-2018	Vanguard Investments Australia Ltd.	Sell	2.26	Ordinary	(13,020)	(13,020)
29-Nov-2018	Vanguard Investments Australia Ltd.	Sell	2.26	Ordinary	(289,527)	(289,527)
29-Nov-2018	Vanguard Investments Australia Ltd.	Buy	2.26	Ordinary	34,419	34,419
30-Nov-2018	Vanguard Investments Australia Ltd.	Buy	2.19	Ordinary	100,156	100,156
3-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.23	Ordinary	40,677	40,677
3-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.23	Ordinary	56,753	56,753
4-Dec-2018	Vanguard Investments Australia Ltd.	Sell	2.23	Ordinary	(596,541)	(596,541)
4-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.23	Ordinary	629,976	629,976
5-Dec-2018	Vanguard Investments Australia Ltd.	Sell	2.21	Ordinary	(2,564,846)	(2,564,846)
6-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.27	Ordinary	130,673	130,673
6-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.27	Ordinary	2,817,933	2,817,933
6-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.28	Ordinary	102,400	102,400
7-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.32	Ordinary	64,666	64,666
11-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.29	Ordinary	62,520	62,520
11-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.29	Ordinary	37,512	37,512
12-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.32	Ordinary	2,640,744	2,640,744
12-Dec-2018	Vanguard Investments Australia Ltd.	Sell	2.32	Ordinary	(22,506)	(22,506)
14-Dec-2018	Vanguard Investments Australia Ltd.	Sell	2.30	Ordinary	(18,756)	(18,756)
18-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.29	Ordinary	153,678	153,678
20-Dec-2018	Vanguard Investments Australia Ltd.	Sell	2.33	Ordinary	(24,636)	(24,636)
20-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.33	Ordinary	102,452	102,452

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-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.34	Ordinary	1,048,006	1,048,006
21-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.30	Ordinary	164,690	164,690
21-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.30	Ordinary	48,932	48,932
21-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.30	Ordinary	31,538	31,538
21-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.30	Ordinary	49,307	49,307
21-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.30	Ordinary	158,682	158,682
21-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.30	Ordinary	129,329	129,329
21-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.30	Ordinary	57,798	57,798
21-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.30	Ordinary	185,888	185,888
21-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.31	Ordinary	2,958,289	2,958,289
21-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.30	Ordinary	415,447	415,447
27-Dec-2018	Vanguard Investments Australia Ltd.	Sell	2.31	Ordinary	(14,454)	(14,454)
27-Dec-2018	Vanguard Investments Australia Ltd.	Buy	2.31	Ordinary	18,942	18,942
31-Dec-2018	Vanguard Investments Australia Ltd.	Sell	2.25	Ordinary	(468,901)	(468,901)
3-Jan-2019	Vanguard Investments Australia Ltd.	Buy	2.23	Ordinary	41,890	41,890
4-Jan-2019	Vanguard Investments Australia Ltd.	Buy	2.21	Ordinary	14,618	14,618
4-Jan-2019	Vanguard Investments Australia Ltd.	Sell	2.21	Ordinary	(14,747)	(14,747)
8-Jan-2019	Vanguard Investments Australia Ltd.	Buy	2.22	Ordinary	31,970	31,970
9-Jan-2019	Vanguard Investments Australia Ltd.	Buy	2.26	Ordinary	105,220	105,220
11-Jan-2019	Vanguard Investments Australia Ltd.	Sell	2.30	Ordinary	(10,482)	(10,482)
11-Jan-2019	Vanguard Investments Australia Ltd.	Buy	2.30	Ordinary	38,220	38,220
11-Jan-2019	Vanguard Investments Australia Ltd.	Buy	2.31	Ordinary	56,804	56,804
16-Jan-2019	Vanguard Investments Australia Ltd.	Sell	2.30	Ordinary	(14,793)	(14,793)
18-Jan-2019	Vanguard Investments Australia Ltd.	Buy	2.26	Ordinary	11,332	11,332
18-Jan-2019	Vanguard Investments Australia Ltd.	Buy	2.24	Ordinary	57,051	57,051
21-Jan-2019	Vanguard Investments Australia Ltd.	Sell	2.26	Ordinary	(29,355)	(29,355)
22-Jan-2019	Vanguard Investments Australia Ltd.	Sell	2.26	Ordinary	(52,129)	(52,129)
22-Jan-2019	Vanguard Investments Australia Ltd.	Buy	2.26	Ordinary	157,818	157,818
23-Jan-2019	Vanguard Investments Australia Ltd.	Sell	2.27	Ordinary	(14,993)	(14,993)
23-Jan-2019	Vanguard Investments Australia Ltd.	Buy	2.27	Ordinary	52,606	52,606
29-Jan-2019	Vanguard Investments Australia Ltd.	Sell	2.40	Ordinary	(59,992)	(59,992)
29-Jan-2019	Vanguard Investments Australia Ltd.	Buy	2.40	Ordinary	55,776	55,776
30-Jan-2019	Vanguard Investments Australia Ltd.	Buy	2.41	Ordinary	12,588	12,588
30-Jan-2019	Vanguard Investments Australia Ltd.	Buy	2.40	Ordinary	79,793	79,793
1-Feb-2019	Vanguard Investments Australia Ltd.	Sell	2.40	Ordinary	(18,568)	(18,568)
1-Feb-2019	Vanguard Investments Australia Ltd.	Buy	2.40	Ordinary	67,046	67,046
4-Feb-2019	Vanguard Investments Australia Ltd.	Buy	2.42	Ordinary	107,396	107,396
4-Feb-2019	Vanguard Investments Australia Ltd.	Buy	2.42	Ordinary	105,204	105,204
5-Feb-2019	Vanguard Investments Australia Ltd.	Sell	2.45	Ordinary	(220,290)	(220,290)
7-Feb-2019	Vanguard Investments Australia Ltd.	Sell	2.54	Ordinary	(58,242)	(58,242)
12-Feb-2019	Vanguard Investments Australia Ltd.	Sell	2.57	Ordinary	(52,518)	(52,518)
13-Feb-2019	Vanguard Investments Australia Ltd.	Buy	2.54	Ordinary	113,954	113,954
14-Feb-2019	Vanguard Investments Australia Ltd.	Sell	2.56	Ordinary	(11,650)	(11,650)
14-Feb-2019	Vanguard Investments Australia Ltd.	Buy	2.56	Ordinary	158,550	158,550
19-Feb-2019	Vanguard Investments Australia Ltd.	Buy	2.60	Ordinary	34,540	34,540
20-Feb-2019	Vanguard Investments Australia Ltd.	Sell	2.60	Ordinary	(25,902)	(25,902)
25-Feb-2019	Vanguard Investments Australia Ltd.	Buy	2.62	Ordinary	95,370	95,370
26-Feb-2019	Vanguard Investments Australia Ltd.	Sell	2.57	Ordinary	(114,081)	(114,081)
26-Feb-2019	Vanguard Investments Australia Ltd.	Buy	2.58	Ordinary	52,850	52,850
26-Feb-2019	Vanguard Investments Australia Ltd.	Buy	2.58	Ordinary	31,400	31,400
27-Feb-2019	Vanguard Investments Australia Ltd.	Buy	2.57	Ordinary	55,265	55,265
27-Feb-2019	Vanguard Investments Australia Ltd.	Buy	2.57	Ordinary	550,258	550,258
28-Feb-2019	Vanguard Investments Australia Ltd.	Buy	2.57	Ordinary	31,806	31,806
28-Feb-2019	Vanguard Investments Australia Ltd.	Buy	2.57	Ordinary	159,093	159,093
28-Feb-2019	Vanguard Investments Australia Ltd.	Buy	2.57	Ordinary	316,694	316,694
1-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.61	Ordinary	48,751	48,751
1-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.61	Ordinary	294,308	294,308
5-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.64	Ordinary	200,960	200,960
7-Mar-2019	Vanguard Investments Australia Ltd.	Sell	2.65	Ordinary	(27,232)	(27,232)
12-Mar-2019	Vanguard Investments Australia Ltd.	Sell	2.67	Ordinary	(58,265)	(58,265)
15-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.75	Ordinary	24,347	24,347
15-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.73	Ordinary	79,087	79,087
15-Mar-2019	Vanguard Investments Australia Ltd.	Sell	2.75	Ordinary	(25,516)	(25,516)
15-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.75	Ordinary	10,484	10,484
15-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.73	Ordinary	34,055	34,055
15-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.75	Ordinary	25,326	25,326
15-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.73	Ordinary	82,269	82,269
15-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.75	Ordinary	53,031	53,031
15-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.75	Ordinary	314,210	314,210

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
15-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.73	Ordinary	1,020,645	1,020,645
15-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.75	Ordinary	13,525	13,525
15-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.73	Ordinary	43,936	43,936
19-Mar-2019	Vanguard Investments Australia Ltd.	Sell	2.70	Ordinary	(34,271)	(34,271)
19-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.70	Ordinary	159,345	159,345
20-Mar-2019	Vanguard Investments Australia Ltd.	Sell	2.73	Ordinary	(12,973)	(12,973)
21-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.71	Ordinary	74,736	74,736
22-Mar-2019	Vanguard Investments Australia Ltd.	Buy	2.74	Ordinary	51,938	51,938
26-Mar-2019	Vanguard Investments Australia Ltd.	Sell	2.79	Ordinary	(41,225)	(41,225)
29-Mar-2019	Vanguard Investments Australia Ltd.	Sell	2.75	Ordinary	(789,252)	(789,252)
1-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.74	Ordinary	7,567	7,567
1-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.74	Ordinary	152,365	152,365
1-Apr-2019	Vanguard Investments Australia Ltd.	Sell	2.74	Ordinary	(235,573)	(235,573)
1-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.74	Ordinary	65,049	65,049
2-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.77	Ordinary	20,933	20,933
2-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.77	Ordinary	63,922	63,922
2-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.77	Ordinary	88,197	88,197
2-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.75	Ordinary	22,939	22,939
4-Apr-2019	Vanguard Investments Australia Ltd.	Sell	2.74	Ordinary	(28,874)	(28,874)
4-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.74	Ordinary	52,894	52,894
5-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.71	Ordinary	66,270	66,270
5-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.71	Ordinary	158,682	158,682
8-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.74	Ordinary	52,894	52,894
8-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.74	Ordinary	25,760	25,760
8-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.74	Ordinary	6,199	6,199
9-Apr-2019	Vanguard Investments Australia Ltd.	Sell	2.74	Ordinary	(12,544)	(12,544)
9-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.74	Ordinary	1,109,925	1,109,925
10-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.76	Ordinary	52,838	52,838
15-Apr-2019	Vanguard Investments Australia Ltd.	Sell	2.84	Ordinary	(34,500)	(34,500)
16-Apr-2019	Vanguard Investments Australia Ltd.	Sell	2.83	Ordinary	(75)	(75)
29-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.86	Ordinary	158,463	158,463
29-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.86	Ordinary	105,642	105,642
30-Apr-2019	Vanguard Investments Australia Ltd.	Buy	2.83	Ordinary	39,024	39,024
1-May-2019	Vanguard Investments Australia Ltd.	Buy	2.83	Ordinary	4,753	4,753
1-May-2019	Vanguard Investments Australia Ltd.	Buy	2.82	Ordinary	35,837	35,837
1-May-2019	Vanguard Investments Australia Ltd.	Sell	2.84	Ordinary	(12,842)	(12,842)
1-May-2019	Vanguard Investments Australia Ltd.	Buy	2.83	Ordinary	11,533	11,533
1-May-2019	Vanguard Investments Australia Ltd.	Buy	2.82	Ordinary	86,945	86,945
2-May-2019	Vanguard Investments Australia Ltd.	Sell	2.82	Ordinary	(31,812)	(31,812)
3-May-2019	Vanguard Investments Australia Ltd.	Sell	2.81	Ordinary	(46,260)	(46,260)
3-May-2019	Vanguard Investments Australia Ltd.	Sell	2.82	Ordinary	(1,251,293)	(1,251,293)
3-May-2019	Vanguard Investments Australia Ltd.	Sell	2.80	Ordinary	(490,526)	(490,526)
6-May-2019	Vanguard Investments Australia Ltd.	Buy	2.82	Ordinary	32,830	32,830
7-May-2019	Vanguard Investments Australia Ltd.	Sell	2.84	Ordinary	(9,111)	(9,111)
7-May-2019	Vanguard Investments Australia Ltd.	Sell	2.84	Ordinary	(89,970)	(89,970)
9-May-2019	Vanguard Investments Australia Ltd.	Buy	2.85	Ordinary	158,457	158,457
10-May-2019	Vanguard Investments Australia Ltd.	Buy	2.87	Ordinary	629,088	629,088
10-May-2019	Vanguard Investments Australia Ltd.	Buy	2.87	Ordinary	29,133	29,133
14-May-2019	Vanguard Investments Australia Ltd.	Sell	2.90	Ordinary	(29,503)	(29,503)
14-May-2019	Vanguard Investments Australia Ltd.	Buy	2.90	Ordinary	104,848	104,848
15-May-2019	Vanguard Investments Australia Ltd.	Sell	2.92	Ordinary	(42,370)	(42,370)
16-May-2019	Vanguard Investments Australia Ltd.	Buy	2.95	Ordinary	342,934	342,934
17-May-2019	Vanguard Investments Australia Ltd.	Buy	2.95	Ordinary	32,640	32,640
21-May-2019	Vanguard Investments Australia Ltd.	Buy	3.06	Ordinary	33,190	33,190
22-May-2019	Vanguard Investments Australia Ltd.	Buy	3.09	Ordinary	209,696	209,696
22-May-2019	Vanguard Investments Australia Ltd.	Sell	3.09	Ordinary	(6,000,000)	(6,000,000)
22-May-2019	Vanguard Investments Australia Ltd.	Sell	3.09	Ordinary	(1,100,000)	(1,100,000)
24-May-2019	Vanguard Investments Australia Ltd.	Buy	3.12	Ordinary	104,822	104,822
27-May-2019	Vanguard Investments Australia Ltd.	Sell	3.12	Ordinary	(27,630)	(27,630)
28-May-2019	Vanguard Investments Australia Ltd.	Sell	3.10	Ordinary	(21,349)	(21,349)
28-May-2019	Vanguard Investments Australia Ltd.	Sell	3.10	Ordinary	(263,176)	(263,176)
28-May-2019	Vanguard Investments Australia Ltd.	Buy	3.10	Ordinary	34,220	34,220
29-May-2019	Vanguard Investments Australia Ltd.	Buy	3.10	Ordinary	157,164	157,164
30-May-2019	Vanguard Investments Australia Ltd.	Buy	2.97	Ordinary	54,178	54,178
30-May-2019	Vanguard Investments Australia Ltd.	Buy	2.97	Ordinary	186,212	186,212
30-May-2019	Vanguard Investments Australia Ltd.	Buy	2.97	Ordinary	960,062	960,062
30-May-2019	Vanguard Investments Australia Ltd.	Buy	2.97	Ordinary	111,541	111,541
30-May-2019	Vanguard Investments Australia Ltd.	Buy	2.97	Ordinary	86,567	86,567
30-May-2019	Vanguard Investments Australia Ltd.	Buy	2.97	Ordinary	188,714	188,714

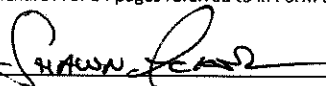
Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
30-May-2019	Vanguard Investments Australia Ltd.	Buy	2.97	Ordinary	1,241	1,241
30-May-2019	Vanguard Investments Australia Ltd.	Buy	2.97	Ordinary	1,016,690	1,016,690
30-May-2019	Vanguard Investments Australia Ltd.	Buy	2.97	Ordinary	36,545	36,545
30-May-2019	Vanguard Investments Australia Ltd.	Buy	2.97	Ordinary	415,291	415,291
30-May-2019	Vanguard Investments Australia Ltd.	Sell	3.01	Ordinary	(40,741)	(40,741)
30-May-2019	Vanguard Investments Australia Ltd.	Buy	2.97	Ordinary	453,411	453,411
30-May-2019	Vanguard Investments Australia Ltd.	Buy	2.97	Ordinary	1,009,015	1,009,015
30-May-2019	Vanguard Investments Australia Ltd.	Buy	3.01	Ordinary	221,512	221,512
30-May-2019	Vanguard Investments Australia Ltd.	Buy	2.97	Ordinary	10,892,831	10,892,831
30-May-2019	Vanguard Investments Australia Ltd.	Buy	3.01	Ordinary	111,238	111,238
30-May-2019	Vanguard Investments Australia Ltd.	Sell	3.01	Ordinary	(905,965)	(905,965)
30-May-2019	Vanguard Investments Australia Ltd.	Buy	2.97	Ordinary	2,181,343	2,181,343
3-Jun-2019	Vanguard Investments Australia Ltd.	Sell	3.09	Ordinary	(39,270)	(39,270)
4-Jun-2019	Vanguard Investments Australia Ltd.	Sell	3.11	Ordinary	(13,255)	(13,255)
4-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.11	Ordinary	37,000	37,000
6-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.11	Ordinary	111,246	111,246
6-Jun-2019	Vanguard Investments Australia Ltd.	Sell	3.11	Ordinary	(205,590)	(205,590)
6-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.11	Ordinary	44,400	44,400
7-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.13	Ordinary	22,414	22,414
7-Jun-2019	Vanguard Investments Australia Ltd.	Sell	3.13	Ordinary	(9,861)	(9,861)
7-Jun-2019	Vanguard Investments Australia Ltd.	Sell	3.13	Ordinary	(21,494)	(21,494)
7-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.09	Ordinary	188,606	188,606
11-Jun-2019	Vanguard Investments Australia Ltd.	Sell	3.17	Ordinary	(26,769)	(26,769)
11-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.17	Ordinary	222,488	222,488
11-Jun-2019	Vanguard Investments Australia Ltd.	Sell	3.17	Ordinary	(102,991)	(102,991)
12-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.17	Ordinary	135,997	135,997
14-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.21	Ordinary	166,869	166,869
17-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.17	Ordinary	29,600	29,600
19-Jun-2019	Vanguard Investments Australia Ltd.	Sell	3.18	Ordinary	(13,218)	(13,218)
20-Jun-2019	Vanguard Investments Australia Ltd.	Sell	3.16	Ordinary	(14,854)	(14,854)
20-Jun-2019	Vanguard Investments Australia Ltd.	Sell	3.14	Ordinary	(31,534)	(31,534)
20-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.16	Ordinary	166,869	166,869
21-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.15	Ordinary	8,047	8,047
21-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.16	Ordinary	10,765	10,765
21-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.15	Ordinary	30,018	30,018
21-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.16	Ordinary	40,156	40,156
21-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.15	Ordinary	222,492	222,492
21-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.15	Ordinary	22,200	22,200
21-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.15	Ordinary	65,070	65,070
21-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.16	Ordinary	87,042	87,042
27-Jun-2019	Vanguard Investments Australia Ltd.	Sell	3.13	Ordinary	(36,834)	(36,834)
27-Jun-2019	Vanguard Investments Australia Ltd.	Sell	3.13	Ordinary	(22,400)	(22,400)
27-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.13	Ordinary	225,692	225,692
27-Jun-2019	Vanguard Investments Australia Ltd.	Buy	3.13	Ordinary	25,886	25,886
28-Jun-2019	Vanguard Investments Australia Ltd.	Sell	3.13	Ordinary	(1,143,581)	(1,143,581)
1-Jul-2019	Vanguard Investments Australia Ltd.	Sell	3.16	Ordinary	(25,982)	(25,982)
1-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.16	Ordinary	109,816	109,816
2-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.16	Ordinary	43,704	43,704
3-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.21	Ordinary	219,476	219,476
3-Jul-2019	Vanguard Investments Australia Ltd.	Sell	3.21	Ordinary	(534,546)	(534,546)
8-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.23	Ordinary	21,852	21,852
9-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.24	Ordinary	21,852	21,852
9-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.24	Ordinary	66,719	66,719
11-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.30	Ordinary	218,744	218,744
11-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.30	Ordinary	21,762	21,762
12-Jul-2019	Vanguard Investments Australia Ltd.	Sell	3.30	Ordinary	(16,444)	(16,444)
15-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.25	Ordinary	19,502	19,502
15-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.25	Ordinary	61,939	61,939
15-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.23	Ordinary	164,058	164,058
16-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.24	Ordinary	30,304	30,304
16-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.24	Ordinary	39,244	39,244
16-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.23	Ordinary	43,524	43,524
16-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.23	Ordinary	58,917	58,917
17-Jul-2019	Vanguard Investments Australia Ltd.	Sell	3.19	Ordinary	(161,753)	(161,753)
17-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.19	Ordinary	109,372	109,372
17-Jul-2019	Vanguard Investments Australia Ltd.	Sell	3.19	Ordinary	(287,551)	(287,551)
18-Jul-2019	Vanguard Investments Australia Ltd.	Sell	3.21	Ordinary	(15,924)	(15,924)
19-Jul-2019	Vanguard Investments Australia Ltd.	Sell	3.21	Ordinary	(11,220)	(11,220)
19-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.21	Ordinary	187,966	187,966

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-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.21	Ordinary	49,616	49,616
22-Jul-2019	Vanguard Investments Australia Ltd.	Sell	3.18	Ordinary	(2,438,404)	(2,438,404)
22-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.18	Ordinary	164,049	164,049
22-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.18	Ordinary	109,366	109,366
23-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.23	Ordinary	117,774	117,774
24-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.26	Ordinary	201,120	201,120
25-Jul-2019	Vanguard Investments Australia Ltd.	Sell	3.24	Ordinary	(9,486)	(9,486)
25-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.24	Ordinary	164,049	164,049
25-Jul-2019	Vanguard Investments Australia Ltd.	Sell	3.24	Ordinary	(137,470)	(137,470)
29-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.21	Ordinary	109,366	109,366
29-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.21	Ordinary	103,240	103,240
30-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.24	Ordinary	83,723	83,723
30-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.24	Ordinary	39,787	39,787
31-Jul-2019	Vanguard Investments Australia Ltd.	Buy	3.22	Ordinary	109,372	109,372
1-Aug-2019	Vanguard Investments Australia Ltd.	Sell	3.23	Ordinary	(24,963)	(24,963)
1-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.23	Ordinary	299,595	299,595
2-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.33	Ordinary	109,248	109,248
6-Aug-2019	Vanguard Investments Australia Ltd.	Sell	3.17	Ordinary	(51,063)	(51,063)
6-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.17	Ordinary	109,248	109,248
6-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.17	Ordinary	94,051	94,051
6-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.17	Ordinary	32,544	32,544
6-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.17	Ordinary	32,544	32,544
6-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.17	Ordinary	51,327	51,327
7-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.19	Ordinary	12,809	12,809
7-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.19	Ordinary	206,005	206,005
7-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.19	Ordinary	49,151	49,151
8-Aug-2019	Vanguard Investments Australia Ltd.	Sell	3.40	Ordinary	(10,157)	(10,157)
8-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.40	Ordinary	163,863	163,863
8-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.40	Ordinary	39,754	39,754
8-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.40	Ordinary	66,672	66,672
9-Aug-2019	Vanguard Investments Australia Ltd.	Sell	3.29	Ordinary	(15,443)	(15,443)
9-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.29	Ordinary	163,863	163,863
9-Aug-2019	Vanguard Investments Australia Ltd.	Sell	3.29	Ordinary	(166,919)	(166,919)
9-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.29	Ordinary	56,814	56,814
12-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.26	Ordinary	39,941	39,941
13-Aug-2019	Vanguard Investments Australia Ltd.	Sell	3.19	Ordinary	(11,016)	(11,016)
14-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.18	Ordinary	109,732	109,732
15-Aug-2019	Vanguard Investments Australia Ltd.	Sell	3.11	Ordinary	(12,737)	(12,737)
16-Aug-2019	Vanguard Investments Australia Ltd.	Sell	3.14	Ordinary	(138,509)	(138,509)
19-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.15	Ordinary	109,642	109,642
20-Aug-2019	Vanguard Investments Australia Ltd.	Sell	3.21	Ordinary	(38,265)	(38,265)
21-Aug-2019	Vanguard Investments Australia Ltd.	Sell	3.12	Ordinary	(19,116)	(19,116)
21-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.12	Ordinary	164,454	164,454
27-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.17	Ordinary	1,580,428	1,580,428
27-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.17	Ordinary	348,496	348,496
28-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.16	Ordinary	58,695	58,695
28-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.16	Ordinary	2,148,866	2,148,866
30-Aug-2019	Vanguard Investments Australia Ltd.	Buy	3.19	Ordinary	109,472	109,472
2-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.18	Ordinary	164,478	164,478
2-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.18	Ordinary	82,918	82,918
3-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.19	Ordinary	402,468	402,468
3-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.19	Ordinary	290,848	290,848
4-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.14	Ordinary	53,820	53,820
5-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.14	Ordinary	164,319	164,319
5-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.14	Ordinary	98,094	98,094
6-Sep-2019	Vanguard Investments Australia Ltd.	Sell	3.07	Ordinary	(18,881)	(18,881)
9-Sep-2019	Vanguard Investments Australia Ltd.	Sell	3.09	Ordinary	(18,810)	(18,810)
10-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.06	Ordinary	34,579	34,579
10-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.06	Ordinary	219,088	219,088
11-Sep-2019	Vanguard Investments Australia Ltd.	Sell	3.01	Ordinary	(55,339)	(55,339)
12-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.04	Ordinary	89,663	89,663
13-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.09	Ordinary	14,489	14,489
13-Sep-2019	Vanguard Investments Australia Ltd.	Sell	3.09	Ordinary	(14,479)	(14,479)
13-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.09	Ordinary	164,310	164,310
16-Sep-2019	Vanguard Investments Australia Ltd.	Sell	3.04	Ordinary	(30,073)	(30,073)
17-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.09	Ordinary	36,796	36,796
17-Sep-2019	Vanguard Investments Australia Ltd.	Sell	3.09	Ordinary	(23,682)	(23,682)
17-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.09	Ordinary	164,307	164,307
17-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.09	Ordinary	72,352	72,352

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
18-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.10	Ordinary	6,000,000	6,000,000
18-Sep-2019	Vanguard Investments Australia Ltd.	Buy	3.10	Ordinary	1,100,000	1,100,000

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

Signature: 

Name: Shawn Acker

Capacity: Compliance Manager

Date: 20 September 2019