

Form 604
Corporations Act 2001
Section 671B

Notice of change of interests of substantial holder

To Company Name/Scheme
ACN/ARSN

Charter Hall Group
113 531 150

1. Details of substantial holder (1)

Name
ACN/ARSN (if applicable)

The Vanguard Group, Inc.
N/A

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

26 February 2018

The previous notice was given to the company on

30 September 2016

The previous notice was dated

30 September 2016

2. Previous and present voting power

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

Class of securities (4)	Previous notice		Present notice	
	Person's votes	Voting power (5)	Person's votes	Voting power (5)
Ordinary (Vanguard Investments Australia Ltd)	24,384,021	5.908%	29,504,783	6.335%
Ordinary (The Vanguard Group, Inc.)	9,479,686	2.297%	13,448,503	2.887%
Total	33,863,707	8.205%	42,953,286	9.222%

3. Changes in relevant interests

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

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

4. Present relevant interests

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

Holder of relevant interest	Registered holder of securities	Person entitled to be registered as holder (8)	Nature of relevant interest (6)	Class and number of securities	Person's votes
Vanguard Investments Australia Ltd	JP Morgan Chase Bank, N.A. and various other custodians	Vanguard Investments Australia Ltd is the manager of various superannuation funds, institutional investor portfolios and unit trusts and in that capacity can exercise the power to vote and/or dispose of the shares	Beneficial Owner	Ordinary – 29,504,783	29,504,783
The Vanguard Group, Inc.	JP Morgan Chase Bank, N.A.	The Vanguard Group, Inc. is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares	Beneficial Owner	Ordinary – 6,347,697	6,347,697
The Vanguard Group, Inc.	Brown Brothers Harriman	The Vanguard Group, Inc. is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares	Beneficial Owner	Ordinary – 7,085,379	7,085,379
The Vanguard Group, Inc.	State Street Bank and Trust Company	The Vanguard Group, Inc., is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares	Beneficial Owner	Ordinary – 15,427	15,427

5. Changes in association

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

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

6. Addresses

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

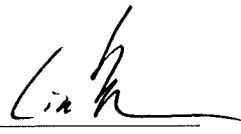
Name	Address
Vanguard Investments Australia Ltd	Level 34, 2 Southbank Blvd, Southbank 3006 VIC Australia
The Vanguard Group, Inc.	P.O. Box 2600, V26 Valley Forge, PA 19482 USA Attn: Keith Delgado Senior Compliance Manager Vanguard_Fund_Compliance@Vanguard.com

Signature

print name

KEITH DELGADO

capacity



sign here



date

1 March 2018

Annexure A

To Company
ACN/ARSN Charter Hall Group
113 531 150

Substantial Holder Name
ACN/ARSN The Vanguard Group, Inc.
N/A

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
27-Sep-16	The Vanguard Group, Inc.	Buy	5.09	Ordinary	1,617	1,617
27-Sep-16	The Vanguard Group, Inc.	Buy	5.09	Ordinary	10,280	10,280
29-Sep-16	The Vanguard Group, Inc.	Buy	5.14	Ordinary	4,300	4,300
30-Sep-16	The Vanguard Group, Inc.	Buy	5.11	Ordinary	37,413	37,413
3-Oct-16	The Vanguard Group, Inc.	Buy	5.18	Ordinary	2,310	2,310
13-Oct-16	The Vanguard Group, Inc.	Buy	4.99	Ordinary	5,803	5,803
13-Oct-16	The Vanguard Group, Inc.	Buy	4.99	Ordinary	3,316	3,316
18-Oct-16	The Vanguard Group, Inc.	Buy	4.94	Ordinary	8,290	8,290
18-Oct-16	The Vanguard Group, Inc.	Buy	4.94	Ordinary	1,617	1,617
18-Oct-16	The Vanguard Group, Inc.	Buy	4.94	Ordinary	4,300	4,300
18-Oct-16	The Vanguard Group, Inc.	Buy	4.94	Ordinary	7,116	7,116
19-Oct-16	The Vanguard Group, Inc.	Buy	4.89	Ordinary	2,487	2,487
21-Oct-16	The Vanguard Group, Inc.	Buy	4.85	Ordinary	2,310	2,310
25-Oct-16	The Vanguard Group, Inc.	Buy	4.84	Ordinary	3,927	3,927
27-Oct-16	The Vanguard Group, Inc.	Buy	4.70	Ordinary	2,310	2,310
31-Oct-16	The Vanguard Group, Inc.	Sell	4.69	Ordinary	(5,313)	(5,313)
2-Nov-16	The Vanguard Group, Inc.	Sell	4.67	Ordinary	(27,959)	(27,959)
2-Nov-16	The Vanguard Group, Inc.	Buy	4.65	Ordinary	4,300	4,300
3-Nov-16	The Vanguard Group, Inc.	Buy	4.63	Ordinary	10,280	10,280
4-Nov-16	The Vanguard Group, Inc.	Buy	4.59	Ordinary	1,848	1,848
4-Nov-16	The Vanguard Group, Inc.	Buy	4.59	Ordinary	6,168	6,168
7-Nov-16	The Vanguard Group, Inc.	Buy	4.67	Ordinary	34,934	34,934
8-Nov-16	The Vanguard Group, Inc.	Buy	4.70	Ordinary	396	396
10-Nov-16	The Vanguard Group, Inc.	Buy	4.45	Ordinary	10,280	10,280
15-Nov-16	The Vanguard Group, Inc.	Buy	4.36	Ordinary	4,300	4,300
16-Nov-16	The Vanguard Group, Inc.	Sell	4.34	Ordinary	(83,904)	(83,904)
17-Nov-16	The Vanguard Group, Inc.	Sell	4.37	Ordinary	(6,624)	(6,624)
21-Nov-16	The Vanguard Group, Inc.	Buy	4.32	Ordinary	1,848	1,848
21-Nov-16	The Vanguard Group, Inc.	Buy	4.32	Ordinary	2,772	2,772
21-Nov-16	The Vanguard Group, Inc.	Sell	4.32	Ordinary	(13,248)	(13,248)
23-Nov-16	The Vanguard Group, Inc.	Buy	4.50	Ordinary	2,310	2,310
25-Nov-16	The Vanguard Group, Inc.	Buy	4.55	Ordinary	4,300	4,300
30-Nov-16	The Vanguard Group, Inc.	Sell	4.51	Ordinary	(6,624)	(6,624)
30-Nov-16	The Vanguard Group, Inc.	Buy	4.52	Ordinary	9,035	9,035
6-Dec-16	The Vanguard Group, Inc.	Buy	4.47	Ordinary	1,386	1,386
8-Dec-16	The Vanguard Group, Inc.	Buy	4.55	Ordinary	2,310	2,310
8-Dec-16	The Vanguard Group, Inc.	Buy	4.55	Ordinary	2,310	2,310
13-Dec-16	The Vanguard Group, Inc.	Buy	4.63	Ordinary	2,310	2,310
14-Dec-16	The Vanguard Group, Inc.	Buy	4.65	Ordinary	1,848	1,848
14-Dec-16	The Vanguard Group, Inc.	Sell	4.65	Ordinary	(4,912)	(4,912)
16-Dec-16	The Vanguard Group, Inc.	Buy	4.58	Ordinary	3,465	3,465
16-Dec-16	The Vanguard Group, Inc.	Buy	4.58	Ordinary	1,617	1,617
16-Dec-16	The Vanguard Group, Inc.	Sell	4.59	Ordinary	(72,170)	(72,170)
19-Dec-16	The Vanguard Group, Inc.	Sell	4.67	Ordinary	(7,368)	(7,368)
20-Dec-16	The Vanguard Group, Inc.	Buy	4.70	Ordinary	3,630	3,630
21-Dec-16	The Vanguard Group, Inc.	Buy	4.69	Ordinary	8,712	8,712
21-Dec-16	The Vanguard Group, Inc.	Sell	4.69	Ordinary	(41,752)	(41,752)
22-Dec-16	The Vanguard Group, Inc.	Buy	4.77	Ordinary	1,452	1,452
22-Dec-16	The Vanguard Group, Inc.	Buy	4.77	Ordinary	8,712	8,712
22-Dec-16	The Vanguard Group, Inc.	Sell	4.77	Ordinary	(7,368)	(7,368)
23-Dec-16	The Vanguard Group, Inc.	Buy	4.81	Ordinary	2,904	2,904
27-Dec-16	The Vanguard Group, Inc.	Buy	4.82	Ordinary	7,260	7,260
28-Dec-16	The Vanguard Group, Inc.	Buy	4.82	Ordinary	4,300	4,300
30-Dec-16	The Vanguard Group, Inc.	Buy	4.73	Ordinary	2,904	2,904
30-Dec-16	The Vanguard Group, Inc.	Buy	4.74	Ordinary	2,506	2,506
3-Jan-17	The Vanguard Group, Inc.	Buy	4.78	Ordinary	5,082	5,082
4-Jan-17	The Vanguard Group, Inc.	Buy	4.72	Ordinary	111,579	111,579
4-Jan-17	The Vanguard Group, Inc.	Buy	4.74	Ordinary	7,260	7,260
5-Jan-17	The Vanguard Group, Inc.	Buy	4.71	Ordinary	4,356	4,356
5-Jan-17	The Vanguard Group, Inc.	Buy	4.71	Ordinary	22,104	22,104
6-Jan-17	The Vanguard Group, Inc.	Buy	4.73	Ordinary	49,120	49,120
6-Jan-17	The Vanguard Group, Inc.	Sell	4.73	Ordinary	(516)	(516)

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
9-Jan-17	The Vanguard Group, Inc.	Buy	4.73	Ordinary	8,712	8,712
9-Jan-17	The Vanguard Group, Inc.	Buy	4.73	Ordinary	4,300	4,300
10-Jan-17	The Vanguard Group, Inc.	Buy	4.70	Ordinary	4,333	4,333
12-Jan-17	The Vanguard Group, Inc.	Sell	4.56	Ordinary	(56,488)	(56,488)
13-Jan-17	The Vanguard Group, Inc.	Buy	4.56	Ordinary	2,178	2,178
13-Jan-17	The Vanguard Group, Inc.	Sell	4.56	Ordinary	(12,280)	(12,280)
13-Jan-17	The Vanguard Group, Inc.	Buy	4.56	Ordinary	4,300	4,300
17-Jan-17	The Vanguard Group, Inc.	Buy	4.52	Ordinary	5,082	5,082
17-Jan-17	The Vanguard Group, Inc.	Sell	4.52	Ordinary	(14,736)	(14,736)
25-Jan-17	The Vanguard Group, Inc.	Buy	4.60	Ordinary	4,700	4,700
3-Feb-17	The Vanguard Group, Inc.	Buy	4.69	Ordinary	1,650	1,650
3-Feb-17	The Vanguard Group, Inc.	Buy	4.69	Ordinary	7,260	7,260
3-Feb-17	The Vanguard Group, Inc.	Buy	4.69	Ordinary	7,260	7,260
3-Feb-17	The Vanguard Group, Inc.	Buy	4.69	Ordinary	3,525	3,525
6-Feb-17	The Vanguard Group, Inc.	Buy	4.72	Ordinary	12,280	12,280
7-Feb-17	The Vanguard Group, Inc.	Buy	4.77	Ordinary	143,492	143,492
7-Feb-17	The Vanguard Group, Inc.	Buy	4.82	Ordinary	9,824	9,824
8-Feb-17	The Vanguard Group, Inc.	Buy	4.82	Ordinary	7,260	7,260
8-Feb-17	The Vanguard Group, Inc.	Buy	4.82	Ordinary	5,082	5,082
9-Feb-17	The Vanguard Group, Inc.	Buy	4.92	Ordinary	4,400	4,400
9-Feb-17	The Vanguard Group, Inc.	Buy	4.92	Ordinary	1,912	1,912
10-Feb-17	The Vanguard Group, Inc.	Buy	4.91	Ordinary	3,300	3,300
10-Feb-17	The Vanguard Group, Inc.	Buy	4.91	Ordinary	8,712	8,712
15-Feb-17	The Vanguard Group, Inc.	Buy	4.95	Ordinary	1,650	1,650
15-Feb-17	The Vanguard Group, Inc.	Buy	4.95	Ordinary	1,452	1,452
16-Feb-17	The Vanguard Group, Inc.	Buy	4.94	Ordinary	24,560	24,560
17-Feb-17	The Vanguard Group, Inc.	Buy	4.92	Ordinary	14,736	14,736
22-Feb-17	The Vanguard Group, Inc.	Buy	4.98	Ordinary	7,260	7,260
22-Feb-17	The Vanguard Group, Inc.	Buy	4.98	Ordinary	12,280	12,280
22-Feb-17	The Vanguard Group, Inc.	Buy	4.98	Ordinary	27,016	27,016
22-Feb-17	The Vanguard Group, Inc.	Buy	4.97	Ordinary	405	405
23-Feb-17	The Vanguard Group, Inc.	Buy	4.97	Ordinary	17,192	17,192
24-Feb-17	The Vanguard Group, Inc.	Buy	5.20	Ordinary	4,356	4,356
24-Feb-17	The Vanguard Group, Inc.	Buy	5.20	Ordinary	9,824	9,824
3-Mar-17	The Vanguard Group, Inc.	Buy	5.29	Ordinary	10,164	10,164
6-Mar-17	The Vanguard Group, Inc.	Buy	5.28	Ordinary	12,280	12,280
8-Mar-17	The Vanguard Group, Inc.	Buy	5.36	Ordinary	3,300	3,300
8-Mar-17	The Vanguard Group, Inc.	Buy	5.36	Ordinary	2,750	2,750
8-Mar-17	The Vanguard Group, Inc.	Buy	5.36	Ordinary	3,630	3,630
9-Mar-17	The Vanguard Group, Inc.	Buy	5.36	Ordinary	7,260	7,260
9-Mar-17	The Vanguard Group, Inc.	Buy	5.36	Ordinary	27,016	27,016
9-Mar-17	The Vanguard Group, Inc.	Buy	5.36	Ordinary	3,045	3,045
10-Mar-17	The Vanguard Group, Inc.	Buy	5.33	Ordinary	2,178	2,178
10-Mar-17	The Vanguard Group, Inc.	Buy	5.33	Ordinary	7,260	7,260
13-Mar-17	The Vanguard Group, Inc.	Buy	5.40	Ordinary	8,712	8,712
13-Mar-17	The Vanguard Group, Inc.	Buy	5.40	Ordinary	7,260	7,260
14-Mar-17	The Vanguard Group, Inc.	Buy	5.45	Ordinary	7,260	7,260
14-Mar-17	The Vanguard Group, Inc.	Buy	5.45	Ordinary	6,534	6,534
15-Mar-17	The Vanguard Group, Inc.	Buy	5.52	Ordinary	3,300	3,300
17-Mar-17	The Vanguard Group, Inc.	Sell	5.47	Ordinary	(57,098)	(57,098)
17-Mar-17	The Vanguard Group, Inc.	Buy	5.47	Ordinary	4,356	4,356
17-Mar-17	The Vanguard Group, Inc.	Sell	5.47	Ordinary	(4,356)	(4,356)
17-Mar-17	The Vanguard Group, Inc.	Buy	5.47	Ordinary	47,618	47,618
20-Mar-17	The Vanguard Group, Inc.	Buy	5.47	Ordinary	4,356	4,356
20-Mar-17	The Vanguard Group, Inc.	Buy	5.42	Ordinary	2,748	2,748
20-Mar-17	The Vanguard Group, Inc.	Buy	5.42	Ordinary	4,122	4,122
21-Mar-17	The Vanguard Group, Inc.	Buy	5.38	Ordinary	6,870	6,870
21-Mar-17	The Vanguard Group, Inc.	Buy	5.39	Ordinary	3,967	3,967
3-Apr-17	The Vanguard Group, Inc.	Buy	5.60	Ordinary	507	507
4-Apr-17	The Vanguard Group, Inc.	Buy	5.62	Ordinary	4,122	4,122
4-Apr-17	The Vanguard Group, Inc.	Buy	5.62	Ordinary	6,870	6,870
4-Apr-17	The Vanguard Group, Inc.	Buy	5.62	Ordinary	26,290	26,290
5-Apr-17	The Vanguard Group, Inc.	Buy	5.65	Ordinary	9,618	9,618
6-Apr-17	The Vanguard Group, Inc.	Buy	5.69	Ordinary	1,521	1,521
12-Apr-17	The Vanguard Group, Inc.	Buy	5.79	Ordinary	1,521	1,521
12-Apr-17	The Vanguard Group, Inc.	Buy	5.79	Ordinary	3,435	3,435
12-Apr-17	The Vanguard Group, Inc.	Buy	5.79	Ordinary	2,748	2,748
12-Apr-17	The Vanguard Group, Inc.	Buy	5.79	Ordinary	8,564	8,564
19-Apr-17	The Vanguard Group, Inc.	Buy	5.72	Ordinary	113,616	113,616

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-Apr-17	The Vanguard Group, Inc.	Buy	5.68	Ordinary	13,740	13,740
19-Apr-17	The Vanguard Group, Inc.	Buy	5.68	Ordinary	8,564	8,564
21-Apr-17	The Vanguard Group, Inc.	Buy	5.71	Ordinary	4,122	4,122
21-Apr-17	The Vanguard Group, Inc.	Buy	5.71	Ordinary	11,950	11,950
21-Apr-17	The Vanguard Group, Inc.	Buy	5.71	Ordinary	19,120	19,120
24-Apr-17	The Vanguard Group, Inc.	Buy	5.66	Ordinary	7,170	7,170
24-Apr-17	The Vanguard Group, Inc.	Buy	5.66	Ordinary	26,290	26,290
25-Apr-17	The Vanguard Group, Inc.	Buy	5.67	Ordinary	6,870	6,870
25-Apr-17	The Vanguard Group, Inc.	Buy	5.67	Ordinary	2,748	2,748
26-Apr-17	The Vanguard Group, Inc.	Buy	5.68	Ordinary	6,932	6,932
1-May-17	The Vanguard Group, Inc.	Buy	5.48	Ordinary	50,153	50,153
1-May-17	The Vanguard Group, Inc.	Buy	5.48	Ordinary	622,805	622,805
1-May-17	The Vanguard Group, Inc.	Buy	5.48	Ordinary	234,569	234,569
1-May-17	The Vanguard Group, Inc.	Buy	5.48	Ordinary	12,720	12,720
1-May-17	The Vanguard Group, Inc.	Buy	5.48	Ordinary	235,138	235,138
1-May-17	The Vanguard Group, Inc.	Buy	5.48	Ordinary	91,446	91,446
1-May-17	The Vanguard Group, Inc.	Buy	5.48	Ordinary	257	257
1-May-17	The Vanguard Group, Inc.	Buy	5.48	Ordinary	580	580
1-May-17	The Vanguard Group, Inc.	Buy	5.48	Ordinary	86	86
1-May-17	The Vanguard Group, Inc.	Buy	5.48	Ordinary	48	48
1-May-17	The Vanguard Group, Inc.	Buy	5.48	Ordinary	10,276	10,276
2-May-17	The Vanguard Group, Inc.	Buy	5.80	Ordinary	117,129	117,129
2-May-17	The Vanguard Group, Inc.	Buy	5.87	Ordinary	13,740	13,740
2-May-17	The Vanguard Group, Inc.	Buy	5.87	Ordinary	10,705	10,705
4-May-17	The Vanguard Group, Inc.	Buy	5.81	Ordinary	2,141	2,141
4-May-17	The Vanguard Group, Inc.	Buy	5.81	Ordinary	6,423	6,423
4-May-17	The Vanguard Group, Inc.	Buy	5.48	Ordinary	257	257
4-May-17	The Vanguard Group, Inc.	Sell	5.48	Ordinary	(257)	(257)
4-May-17	The Vanguard Group, Inc.	Sell	5.48	Ordinary	(580)	(580)
4-May-17	The Vanguard Group, Inc.	Buy	5.48	Ordinary	580	580
4-May-17	The Vanguard Group, Inc.	Sell	5.48	Ordinary	(86)	(86)
4-May-17	The Vanguard Group, Inc.	Buy	5.48	Ordinary	86	86
5-May-17	The Vanguard Group, Inc.	Buy	5.82	Ordinary	1,374	1,374
8-May-17	The Vanguard Group, Inc.	Buy	5.82	Ordinary	4,563	4,563
10-May-17	The Vanguard Group, Inc.	Buy	5.86	Ordinary	3,549	3,549
10-May-17	The Vanguard Group, Inc.	Buy	5.86	Ordinary	12,366	12,366
10-May-17	The Vanguard Group, Inc.	Buy	5.86	Ordinary	12,740	12,740
15-May-17	The Vanguard Group, Inc.	Buy	5.78	Ordinary	15,288	15,288
16-May-17	The Vanguard Group, Inc.	Buy	5.81	Ordinary	4,122	4,122
16-May-17	The Vanguard Group, Inc.	Buy	5.81	Ordinary	6,870	6,870
16-May-17	The Vanguard Group, Inc.	Buy	5.81	Ordinary	1,374	1,374
17-May-17	The Vanguard Group, Inc.	Buy	5.70	Ordinary	8,244	8,244
17-May-17	The Vanguard Group, Inc.	Buy	5.81	Ordinary	29,144	29,144
18-May-17	The Vanguard Group, Inc.	Buy	5.72	Ordinary	4,122	4,122
18-May-17	The Vanguard Group, Inc.	Buy	5.72	Ordinary	10,192	10,192
18-May-17	The Vanguard Group, Inc.	Buy	5.72	Ordinary	10,705	10,705
24-May-17	The Vanguard Group, Inc.	Buy	5.80	Ordinary	2,028	2,028
24-May-17	The Vanguard Group, Inc.	Buy	5.80	Ordinary	6,423	6,423
26-May-17	The Vanguard Group, Inc.	Buy	5.79	Ordinary	6,870	6,870
31-May-17	The Vanguard Group, Inc.	Buy	5.68	Ordinary	687	687
1-Jun-17	The Vanguard Group, Inc.	Buy	5.79	Ordinary	9,618	9,618
2-Jun-17	The Vanguard Group, Inc.	Buy	5.85	Ordinary	4,056	4,056
2-Jun-17	The Vanguard Group, Inc.	Buy	5.85	Ordinary	2,028	2,028
2-Jun-17	The Vanguard Group, Inc.	Buy	5.85	Ordinary	1,521	1,521
2-Jun-17	The Vanguard Group, Inc.	Sell	5.83	Ordinary	(117,185)	(117,185)
5-Jun-17	The Vanguard Group, Inc.	Buy	5.86	Ordinary	2,028	2,028
5-Jun-17	The Vanguard Group, Inc.	Buy	5.86	Ordinary	5,096	5,096
5-Jun-17	The Vanguard Group, Inc.	Buy	5.86	Ordinary	10,192	10,192
6-Jun-17	The Vanguard Group, Inc.	Buy	5.75	Ordinary	10,705	10,705
9-Jun-17	The Vanguard Group, Inc.	Buy	5.72	Ordinary	2,535	2,535
9-Jun-17	The Vanguard Group, Inc.	Buy	5.73	Ordinary	83,510	83,510
9-Jun-17	The Vanguard Group, Inc.	Buy	5.72	Ordinary	15,114	15,114
12-Jun-17	The Vanguard Group, Inc.	Buy	5.72	Ordinary	3,549	3,549
12-Jun-17	The Vanguard Group, Inc.	Buy	5.72	Ordinary	1,521	1,521
12-Jun-17	The Vanguard Group, Inc.	Buy	5.72	Ordinary	15,288	15,288
13-Jun-17	The Vanguard Group, Inc.	Buy	5.73	Ordinary	604	604
14-Jun-17	The Vanguard Group, Inc.	Buy	5.91	Ordinary	8,564	8,564
16-Jun-17	The Vanguard Group, Inc.	Buy	5.93	Ordinary	2,748	2,748
19-Jun-17	The Vanguard Group, Inc.	Buy	5.97	Ordinary	2,028	2,028

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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-Jun-17	The Vanguard Group, Inc.	Buy	5.97	Ordinary	9,618	9,618
22-Jun-17	The Vanguard Group, Inc.	Buy	5.79	Ordinary	114,071	114,071
22-Jun-17	The Vanguard Group, Inc.	Buy	5.76	Ordinary	3,435	3,435
27-Jun-17	The Vanguard Group, Inc.	Buy	5.69	Ordinary	2,748	2,748
28-Jun-17	The Vanguard Group, Inc.	Buy	5.71	Ordinary	4,122	4,122
28-Jun-17	The Vanguard Group, Inc.	Buy	5.71	Ordinary	12,366	12,366
28-Jun-17	The Vanguard Group, Inc.	Buy	5.71	Ordinary	12,366	12,366
28-Jun-17	The Vanguard Group, Inc.	Buy	5.71	Ordinary	8,564	8,564
28-Jun-17	The Vanguard Group, Inc.	Buy	5.71	Ordinary	6,423	6,423
29-Jun-17	The Vanguard Group, Inc.	Buy	5.57	Ordinary	28,028	28,028
3-Jul-17	The Vanguard Group, Inc.	Buy	5.44	Ordinary	4,122	4,122
11-Jul-17	The Vanguard Group, Inc.	Buy	5.35	Ordinary	1,216	1,216
11-Jul-17	The Vanguard Group, Inc.	Buy	5.34	Ordinary	121,798	121,798
11-Jul-17	The Vanguard Group, Inc.	Buy	5.35	Ordinary	4,122	4,122
12-Jul-17	The Vanguard Group, Inc.	Buy	5.20	Ordinary	4,256	4,256
12-Jul-17	The Vanguard Group, Inc.	Buy	5.20	Ordinary	10,192	10,192
14-Jul-17	The Vanguard Group, Inc.	Buy	5.32	Ordinary	4,122	4,122
14-Jul-17	The Vanguard Group, Inc.	Buy	5.32	Ordinary	13,740	13,740
17-Jul-17	The Vanguard Group, Inc.	Buy	5.28	Ordinary	2,432	2,432
25-Jul-17	The Vanguard Group, Inc.	Buy	5.22	Ordinary	6,183	6,183
26-Jul-17	The Vanguard Group, Inc.	Buy	5.25	Ordinary	15,288	15,288
27-Jul-17	The Vanguard Group, Inc.	Buy	5.25	Ordinary	8,244	8,244
28-Jul-17	The Vanguard Group, Inc.	Buy	5.17	Ordinary	4,122	4,122
1-Aug-17	The Vanguard Group, Inc.	Buy	5.29	Ordinary	4,122	4,122
1-Aug-17	The Vanguard Group, Inc.	Buy	5.29	Ordinary	16,488	16,488
2-Aug-17	The Vanguard Group, Inc.	Buy	5.26	Ordinary	5,472	5,472
2-Aug-17	The Vanguard Group, Inc.	Buy	5.26	Ordinary	5,096	5,096
3-Aug-17	The Vanguard Group, Inc.	Buy	5.29	Ordinary	15,288	15,288
3-Aug-17	The Vanguard Group, Inc.	Buy	5.29	Ordinary	4,282	4,282
4-Aug-17	The Vanguard Group, Inc.	Buy	5.29	Ordinary	7,644	7,644
8-Aug-17	The Vanguard Group, Inc.	Buy	5.33	Ordinary	5,496	5,496
8-Aug-17	The Vanguard Group, Inc.	Buy	5.33	Ordinary	10,705	10,705
9-Aug-17	The Vanguard Group, Inc.	Buy	5.34	Ordinary	4,122	4,122
9-Aug-17	The Vanguard Group, Inc.	Buy	5.34	Ordinary	6,423	6,423
14-Aug-17	The Vanguard Group, Inc.	Buy	5.34	Ordinary	1,824	1,824
14-Aug-17	The Vanguard Group, Inc.	Buy	5.34	Ordinary	12,740	12,740
16-Aug-17	The Vanguard Group, Inc.	Buy	5.52	Ordinary	3,648	3,648
17-Aug-17	The Vanguard Group, Inc.	Buy	5.71	Ordinary	10,992	10,992
18-Aug-17	The Vanguard Group, Inc.	Buy	5.72	Ordinary	4,122	4,122
18-Aug-17	The Vanguard Group, Inc.	Buy	5.72	Ordinary	4,122	4,122
21-Aug-17	The Vanguard Group, Inc.	Buy	5.73	Ordinary	15,288	15,288
23-Aug-17	The Vanguard Group, Inc.	Buy	5.70	Ordinary	8,931	8,931
25-Aug-17	The Vanguard Group, Inc.	Buy	5.56	Ordinary	2,432	2,432
29-Aug-17	The Vanguard Group, Inc.	Buy	5.53	Ordinary	15,288	15,288
30-Aug-17	The Vanguard Group, Inc.	Buy	5.57	Ordinary	5,496	5,496
31-Aug-17	The Vanguard Group, Inc.	Buy	5.68	Ordinary	5,096	5,096
1-Sep-17	The Vanguard Group, Inc.	Buy	5.59	Ordinary	1,824	1,824
5-Sep-17	The Vanguard Group, Inc.	Buy	5.61	Ordinary	8,244	8,244
5-Sep-17	The Vanguard Group, Inc.	Buy	5.61	Ordinary	7,644	7,644
6-Sep-17	The Vanguard Group, Inc.	Buy	5.71	Ordinary	6,080	6,080
6-Sep-17	The Vanguard Group, Inc.	Buy	5.71	Ordinary	1,216	1,216
7-Sep-17	The Vanguard Group, Inc.	Buy	5.56	Ordinary	266	266
8-Sep-17	The Vanguard Group, Inc.	Buy	5.64	Ordinary	6,423	6,423
8-Sep-17	The Vanguard Group, Inc.	Buy	5.65	Ordinary	1,341	1,341
14-Sep-17	The Vanguard Group, Inc.	Buy	5.78	Ordinary	2,548	2,548
15-Sep-17	The Vanguard Group, Inc.	Buy	5.69	Ordinary	406	406
21-Sep-17	The Vanguard Group, Inc.	Buy	5.40	Ordinary	5,020	5,020
25-Sep-17	The Vanguard Group, Inc.	Buy	5.39	Ordinary	7,557	7,557
25-Sep-17	The Vanguard Group, Inc.	Buy	5.39	Ordinary	4,122	4,122
25-Sep-17	The Vanguard Group, Inc.	Buy	5.39	Ordinary	21,136	21,136
25-Sep-17	The Vanguard Group, Inc.	Buy	5.39	Ordinary	22,590	22,590
25-Sep-17	The Vanguard Group, Inc.	Buy	5.39	Ordinary	12,550	12,550
26-Sep-17	The Vanguard Group, Inc.	Buy	5.35	Ordinary	4,809	4,809
27-Sep-17	The Vanguard Group, Inc.	Sell	5.36	Ordinary	(2,159)	(2,159)
27-Sep-17	The Vanguard Group, Inc.	Buy	5.36	Ordinary	2,159	2,159
27-Sep-17	The Vanguard Group, Inc.	Buy	5.36	Ordinary	5,284	5,284
29-Sep-17	The Vanguard Group, Inc.	Buy	5.38	Ordinary	7,530	7,530
2-Oct-17	The Vanguard Group, Inc.	Buy	5.39	Ordinary	9,618	9,618
2-Oct-17	The Vanguard Group, Inc.	Buy	5.39	Ordinary	4,809	4,809

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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-Oct-17	The Vanguard Group, Inc.	Buy	5.39	Ordinary	7,926	7,926
2-Oct-17	The Vanguard Group, Inc.	Buy	5.39	Ordinary	7,530	7,530
4-Oct-17	The Vanguard Group, Inc.	Buy	5.35	Ordinary	5,496	5,496
4-Oct-17	The Vanguard Group, Inc.	Buy	5.35	Ordinary	8,931	8,931
6-Oct-17	The Vanguard Group, Inc.	Buy	5.35	Ordinary	3,040	3,040
6-Oct-17	The Vanguard Group, Inc.	Buy	5.35	Ordinary	4,122	4,122
9-Oct-17	The Vanguard Group, Inc.	Buy	5.40	Ordinary	4,122	4,122
12-Oct-17	The Vanguard Group, Inc.	Buy	5.48	Ordinary	21,136	21,136
19-Oct-17	The Vanguard Group, Inc.	Buy	5.65	Ordinary	9,618	9,618
19-Oct-17	The Vanguard Group, Inc.	Buy	5.65	Ordinary	5,020	5,020
20-Oct-17	The Vanguard Group, Inc.	Buy	5.65	Ordinary	21,136	21,136
23-Oct-17	The Vanguard Group, Inc.	Sell	5.61	Ordinary	(352)	(352)
24-Oct-17	The Vanguard Group, Inc.	Buy	5.64	Ordinary	7,530	7,530
26-Oct-17	The Vanguard Group, Inc.	Buy	5.66	Ordinary	5,496	5,496
27-Oct-17	The Vanguard Group, Inc.	Buy	5.68	Ordinary	136,058	136,058
31-Oct-17	The Vanguard Group, Inc.	Buy	5.81	Ordinary	5,284	5,284
31-Oct-17	The Vanguard Group, Inc.	Buy	5.81	Ordinary	15,852	15,852
1-Nov-17	The Vanguard Group, Inc.	Buy	5.85	Ordinary	412	412
2-Nov-17	The Vanguard Group, Inc.	Buy	5.87	Ordinary	3,435	3,435
2-Nov-17	The Vanguard Group, Inc.	Buy	5.87	Ordinary	10,568	10,568
3-Nov-17	The Vanguard Group, Inc.	Buy	5.91	Ordinary	5,496	5,496
3-Nov-17	The Vanguard Group, Inc.	Buy	5.91	Ordinary	15,852	15,852
6-Nov-17	The Vanguard Group, Inc.	Buy	6.02	Ordinary	4,122	4,122
8-Nov-17	The Vanguard Group, Inc.	Buy	6.03	Ordinary	7,530	7,530
9-Nov-17	The Vanguard Group, Inc.	Buy	6.17	Ordinary	3,040	3,040
10-Nov-17	The Vanguard Group, Inc.	Buy	6.20	Ordinary	6,688	6,688
10-Nov-17	The Vanguard Group, Inc.	Buy	6.20	Ordinary	12,550	12,550
13-Nov-17	The Vanguard Group, Inc.	Buy	6.21	Ordinary	21,136	21,136
15-Nov-17	The Vanguard Group, Inc.	Buy	6.10	Ordinary	1,824	1,824
15-Nov-17	The Vanguard Group, Inc.	Buy	6.10	Ordinary	10,568	10,568
16-Nov-17	The Vanguard Group, Inc.	Buy	6.18	Ordinary	3,648	3,648
16-Nov-17	The Vanguard Group, Inc.	Buy	6.18	Ordinary	5,020	5,020
17-Nov-17	The Vanguard Group, Inc.	Buy	6.21	Ordinary	26,420	26,420
24-Nov-17	The Vanguard Group, Inc.	Buy	6.21	Ordinary	21,136	21,136
24-Nov-17	The Vanguard Group, Inc.	Buy	6.20	Ordinary	342	342
28-Nov-17	The Vanguard Group, Inc.	Buy	6.30	Ordinary	9,175	9,175
30-Nov-17	The Vanguard Group, Inc.	Buy	6.31	Ordinary	360	360
6-Dec-17	The Vanguard Group, Inc.	Buy	6.22	Ordinary	3,435	3,435
6-Dec-17	The Vanguard Group, Inc.	Sell	6.22	Ordinary	(5,020)	(5,020)
8-Dec-17	The Vanguard Group, Inc.	Buy	6.29	Ordinary	23,175	23,175
8-Dec-17	The Vanguard Group, Inc.	Buy	6.29	Ordinary	7,725	7,725
13-Dec-17	The Vanguard Group, Inc.	Sell	6.41	Ordinary	(7,530)	(7,530)
14-Dec-17	The Vanguard Group, Inc.	Buy	6.36	Ordinary	8,244	8,244
14-Dec-17	The Vanguard Group, Inc.	Sell	6.36	Ordinary	(5,020)	(5,020)
15-Dec-17	The Vanguard Group, Inc.	Sell	6.39	Ordinary	(66,969)	(66,969)
15-Dec-17	The Vanguard Group, Inc.	Buy	6.41	Ordinary	2,748	2,748
15-Dec-17	The Vanguard Group, Inc.	Sell	6.39	Ordinary	(38,140)	(38,140)
15-Dec-17	The Vanguard Group, Inc.	Buy	6.39	Ordinary	1,356	1,356
18-Dec-17	The Vanguard Group, Inc.	Buy	6.41	Ordinary	378	378
19-Dec-17	The Vanguard Group, Inc.	Buy	6.43	Ordinary	145,190	145,190
20-Dec-17	The Vanguard Group, Inc.	Sell	6.34	Ordinary	(5,096)	(5,096)
21-Dec-17	The Vanguard Group, Inc.	Sell	6.20	Ordinary	(2,524)	(2,524)
21-Dec-17	The Vanguard Group, Inc.	Buy	6.20	Ordinary	4,905	4,905
26-Dec-17	The Vanguard Group, Inc.	Buy	6.19	Ordinary	13,734	13,734
29-Dec-17	The Vanguard Group, Inc.	Sell	6.00	Ordinary	(3,786)	(3,786)
2-Jan-18	The Vanguard Group, Inc.	Buy	6.06	Ordinary	3,714	3,714
4-Jan-18	The Vanguard Group, Inc.	Buy	6.05	Ordinary	3,924	3,924
4-Jan-18	The Vanguard Group, Inc.	Buy	6.05	Ordinary	5,571	5,571
5-Jan-18	The Vanguard Group, Inc.	Buy	6.11	Ordinary	4,905	4,905
8-Jan-18	The Vanguard Group, Inc.	Buy	6.15	Ordinary	17,500	17,500
9-Jan-18	The Vanguard Group, Inc.	Buy	6.14	Ordinary	11,772	11,772
11-Jan-18	The Vanguard Group, Inc.	Buy	5.98	Ordinary	7,848	7,848
16-Jan-18	The Vanguard Group, Inc.	Buy	5.84	Ordinary	5,886	5,886
16-Jan-18	The Vanguard Group, Inc.	Buy	5.86	Ordinary	568	568
18-Jan-18	The Vanguard Group, Inc.	Buy	5.85	Ordinary	7,848	7,848
18-Jan-18	The Vanguard Group, Inc.	Buy	5.85	Ordinary	22,500	22,500
19-Jan-18	The Vanguard Group, Inc.	Buy	5.96	Ordinary	10,000	10,000
23-Jan-18	The Vanguard Group, Inc.	Buy	6.01	Ordinary	15,000	15,000
24-Jan-18	The Vanguard Group, Inc.	Buy	6.03	Ordinary	5,000	5,000

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Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
26-Jan-18	The Vanguard Group, Inc.	Buy	6.00	Ordinary	5,886	5,886
26-Jan-18	The Vanguard Group, Inc.	Buy	6.00	Ordinary	20,000	20,000
30-Jan-18	The Vanguard Group, Inc.	Buy	5.81	Ordinary	6,867	6,867
1-Feb-18	The Vanguard Group, Inc.	Buy	5.90	Ordinary	8,829	8,829
2-Feb-18	The Vanguard Group, Inc.	Buy	5.90	Ordinary	20,000	20,000
5-Feb-18	The Vanguard Group, Inc.	Sell	5.78	Ordinary	(2,524)	(2,524)
5-Feb-18	The Vanguard Group, Inc.	Sell	5.78	Ordinary	(3,155)	(3,155)
5-Feb-18	The Vanguard Group, Inc.	Buy	5.78	Ordinary	10,000	10,000
8-Feb-18	The Vanguard Group, Inc.	Sell	5.47	Ordinary	(1,262)	(1,262)
8-Feb-18	The Vanguard Group, Inc.	Buy	5.57	Ordinary	35,184	35,184
13-Feb-18	The Vanguard Group, Inc.	Buy	5.62	Ordinary	10,390	10,390
13-Feb-18	The Vanguard Group, Inc.	Buy	5.62	Ordinary	6,234	6,234
13-Feb-18	The Vanguard Group, Inc.	Buy	5.60	Ordinary	9,297	9,297
14-Feb-18	The Vanguard Group, Inc.	Buy	5.65	Ordinary	788	788
16-Feb-18	The Vanguard Group, Inc.	Buy	5.75	Ordinary	9,351	9,351
16-Feb-18	The Vanguard Group, Inc.	Buy	5.75	Ordinary	12,468	12,468
20-Feb-18	The Vanguard Group, Inc.	Sell	5.72	Ordinary	(6,310)	(6,310)
20-Feb-18	The Vanguard Group, Inc.	Buy	5.72	Ordinary	7,500	7,500
21-Feb-18	The Vanguard Group, Inc.	Sell	5.82	Ordinary	(2,524)	(2,524)
21-Feb-18	The Vanguard Group, Inc.	Sell	5.82	Ordinary	(3,155)	(3,155)
22-Feb-18	The Vanguard Group, Inc.	Sell	5.76	Ordinary	(13,634)	(13,634)
26-Feb-18	The Vanguard Group, Inc.	Buy	5.89	Ordinary	5,195	5,195
27-Sep-16	Vanguard Investments Australia Ltd	Buy	5.09	Ordinary	63,000	63,000
29-Sep-16	Vanguard Investments Australia Ltd	Sell	5.17	Ordinary	(52,743)	(52,743)
30-Sep-16	Vanguard Investments Australia Ltd	Buy	5.11	Ordinary	16,620	16,620
30-Sep-16	Vanguard Investments Australia Ltd	Sell	5.11	Ordinary	(65,745)	(65,745)
30-Sep-16	Vanguard Investments Australia Ltd	Buy	5.11	Ordinary	3,402	3,402
3-Oct-16	Vanguard Investments Australia Ltd	Sell	5.19	Ordinary	(47,372)	(47,372)
5-Oct-16	Vanguard Investments Australia Ltd	Buy	5.09	Ordinary	11,008	11,008
5-Oct-16	Vanguard Investments Australia Ltd	Sell	5.09	Ordinary	(23,306)	(23,306)
5-Oct-16	Vanguard Investments Australia Ltd	Sell	5.09	Ordinary	(56,756)	(56,756)
6-Oct-16	Vanguard Investments Australia Ltd	Buy	5.08	Ordinary	33,264	33,264
7-Oct-16	Vanguard Investments Australia Ltd	Sell	5.00	Ordinary	(163,875)	(163,875)
10-Oct-16	Vanguard Investments Australia Ltd	Buy	4.96	Ordinary	6,610	6,610
10-Oct-16	Vanguard Investments Australia Ltd	Buy	4.96	Ordinary	4,014	4,014
14-Oct-16	Vanguard Investments Australia Ltd	Buy	5.00	Ordinary	16,512	16,512
20-Oct-16	Vanguard Investments Australia Ltd	Buy	4.87	Ordinary	2,230	2,230
24-Oct-16	Vanguard Investments Australia Ltd	Sell	4.80	Ordinary	(207,961)	(207,961)
24-Oct-16	Vanguard Investments Australia Ltd	Buy	4.82	Ordinary	4,014	4,014
25-Oct-16	Vanguard Investments Australia Ltd	Buy	4.85	Ordinary	22,016	22,016
25-Oct-16	Vanguard Investments Australia Ltd	Buy	4.85	Ordinary	5,352	5,352
27-Oct-16	Vanguard Investments Australia Ltd	Buy	4.71	Ordinary	44,218	44,218
28-Oct-16	Vanguard Investments Australia Ltd	Buy	4.64	Ordinary	30,714	30,714
28-Oct-16	Vanguard Investments Australia Ltd	Buy	4.64	Ordinary	5,985	5,985
28-Oct-16	Vanguard Investments Australia Ltd	Buy	4.64	Ordinary	4,014	4,014
31-Oct-16	Vanguard Investments Australia Ltd	Sell	4.70	Ordinary	(7,756)	(7,756)
31-Oct-16	Vanguard Investments Australia Ltd	Buy	4.70	Ordinary	44,032	44,032
1-Nov-16	Vanguard Investments Australia Ltd	Buy	4.72	Ordinary	22,016	22,016
1-Nov-16	Vanguard Investments Australia Ltd	Buy	4.72	Ordinary	22,016	22,016
2-Nov-16	Vanguard Investments Australia Ltd	Buy	4.68	Ordinary	55,040	55,040
2-Nov-16	Vanguard Investments Australia Ltd	Buy	4.68	Ordinary	2,375	2,375
3-Nov-16	Vanguard Investments Australia Ltd	Buy	4.63	Ordinary	49,536	49,536
3-Nov-16	Vanguard Investments Australia Ltd	Sell	4.63	Ordinary	(73,599)	(73,599)
4-Nov-16	Vanguard Investments Australia Ltd	Buy	4.60	Ordinary	3,800	3,800
7-Nov-16	Vanguard Investments Australia Ltd	Sell	4.68	Ordinary	(9,576)	(9,576)
8-Nov-16	Vanguard Investments Australia Ltd	Buy	4.80	Ordinary	19,908	19,908
9-Nov-16	Vanguard Investments Australia Ltd	Buy	4.57	Ordinary	4,275	4,275
10-Nov-16	Vanguard Investments Australia Ltd	Buy	4.45	Ordinary	4,750	4,750
14-Nov-16	Vanguard Investments Australia Ltd	Buy	4.36	Ordinary	22,016	22,016
14-Nov-16	Vanguard Investments Australia Ltd	Sell	4.36	Ordinary	(89,766)	(89,766)
21-Nov-16	Vanguard Investments Australia Ltd	Sell	4.32	Ordinary	(124,397)	(124,397)
21-Nov-16	Vanguard Investments Australia Ltd	Buy	4.32	Ordinary	5,985	5,985
22-Nov-16	Vanguard Investments Australia Ltd	Buy	4.42	Ordinary	16,512	16,512
30-Nov-16	Vanguard Investments Australia Ltd	Buy	4.52	Ordinary	10,390	10,390
30-Nov-16	Vanguard Investments Australia Ltd	Buy	4.52	Ordinary	16,520	16,520
1-Dec-16	Vanguard Investments Australia Ltd	Sell	4.43	Ordinary	(21,058)	(21,058)
5-Dec-16	Vanguard Investments Australia Ltd	Buy	4.40	Ordinary	11,008	11,008
5-Dec-16	Vanguard Investments Australia Ltd	Buy	4.40	Ordinary	27,520	27,520

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-Dec-16	Vanguard Investments Australia Ltd	Sell	4.46	Ordinary	(18,476)	(18,476)
12-Dec-16	Vanguard Investments Australia Ltd	Sell	4.54	Ordinary	(73,830)	(73,830)
12-Dec-16	Vanguard Investments Australia Ltd	Buy	4.54	Ordinary	1,170	1,170
13-Dec-16	Vanguard Investments Australia Ltd	Buy	4.63	Ordinary	10,912	10,912
16-Dec-16	Vanguard Investments Australia Ltd	Buy	4.60	Ordinary	6,880	6,880
16-Dec-16	Vanguard Investments Australia Ltd	Buy	4.60	Ordinary	47,520	47,520
16-Dec-16	Vanguard Investments Australia Ltd	Buy	4.60	Ordinary	102,490	102,490
20-Dec-16	Vanguard Investments Australia Ltd	Buy	4.72	Ordinary	8,283	8,283
20-Dec-16	Vanguard Investments Australia Ltd	Buy	4.72	Ordinary	83,766	83,766
21-Dec-16	Vanguard Investments Australia Ltd	Buy	4.70	Ordinary	10,988	10,988
22-Dec-16	Vanguard Investments Australia Ltd	Sell	4.77	Ordinary	(48,216)	(48,216)
29-Dec-16	Vanguard Investments Australia Ltd	Sell	4.69	Ordinary	(4,108)	(4,108)
29-Dec-16	Vanguard Investments Australia Ltd	Buy	4.68	Ordinary	106,136	106,136
29-Dec-16	Vanguard Investments Australia Ltd	Buy	4.69	Ordinary	4,275	4,275
30-Dec-16	Vanguard Investments Australia Ltd	Sell	4.74	Ordinary	(2,250)	(2,250)
5-Jan-17	Vanguard Investments Australia Ltd	Buy	4.70	Ordinary	4,410	4,410
6-Jan-17	Vanguard Investments Australia Ltd	Buy	4.73	Ordinary	10,994	10,994
11-Jan-17	Vanguard Investments Australia Ltd	Buy	4.66	Ordinary	16,491	16,491
19-Jan-17	Vanguard Investments Australia Ltd	Buy	4.52	Ordinary	11,008	11,008
23-Jan-17	Vanguard Investments Australia Ltd	Buy	4.53	Ordinary	4,304	4,304
25-Jan-17	Vanguard Investments Australia Ltd	Buy	4.60	Ordinary	11,008	11,008
27-Jan-17	Vanguard Investments Australia Ltd	Buy	4.70	Ordinary	4,446	4,446
27-Jan-17	Vanguard Investments Australia Ltd	Buy	4.70	Ordinary	3,766	3,766
31-Jan-17	Vanguard Investments Australia Ltd	Buy	4.70	Ordinary	16,512	16,512
31-Jan-17	Vanguard Investments Australia Ltd	Buy	4.70	Ordinary	3,766	3,766
1-Feb-17	Vanguard Investments Australia Ltd	Sell	4.73	Ordinary	(197,148)	(197,148)
2-Feb-17	Vanguard Investments Australia Ltd	Sell	4.65	Ordinary	(64,560)	(64,560)
7-Feb-17	Vanguard Investments Australia Ltd	Buy	4.82	Ordinary	11,008	11,008
8-Feb-17	Vanguard Investments Australia Ltd	Buy	4.83	Ordinary	53,370	53,370
9-Feb-17	Vanguard Investments Australia Ltd	Buy	4.91	Ordinary	350,444	350,444
9-Feb-17	Vanguard Investments Australia Ltd	Buy	4.92	Ordinary	4,842	4,842
13-Feb-17	Vanguard Investments Australia Ltd	Buy	4.94	Ordinary	71,614	71,614
13-Feb-17	Vanguard Investments Australia Ltd	Buy	4.95	Ordinary	11,112	11,112
15-Feb-17	Vanguard Investments Australia Ltd	Buy	4.94	Ordinary	4,412	4,412
17-Feb-17	Vanguard Investments Australia Ltd	Sell	4.92	Ordinary	(10,319)	(10,319)
17-Feb-17	Vanguard Investments Australia Ltd	Buy	4.92	Ordinary	22,228	22,228
20-Feb-17	Vanguard Investments Australia Ltd	Sell	4.95	Ordinary	(57,938)	(57,938)
20-Feb-17	Vanguard Investments Australia Ltd	Buy	4.95	Ordinary	11,114	11,114
21-Feb-17	Vanguard Investments Australia Ltd	Sell	4.97	Ordinary	(59,193)	(59,193)
22-Feb-17	Vanguard Investments Australia Ltd	Sell	4.97	Ordinary	(39,462)	(39,462)
22-Feb-17	Vanguard Investments Australia Ltd	Sell	4.97	Ordinary	(11,790)	(11,790)
23-Feb-17	Vanguard Investments Australia Ltd	Buy	4.98	Ordinary	636,041	636,041
23-Feb-17	Vanguard Investments Australia Ltd	Sell	4.98	Ordinary	(636,041)	(636,041)
24-Feb-17	Vanguard Investments Australia Ltd	Buy	5.20	Ordinary	11,112	11,112
24-Feb-17	Vanguard Investments Australia Ltd	Buy	5.20	Ordinary	6,639	6,639
28-Feb-17	Vanguard Investments Australia Ltd	Sell	5.26	Ordinary	(106,110)	(106,110)
28-Feb-17	Vanguard Investments Australia Ltd	Sell	5.26	Ordinary	(1,086)	(1,086)
2-Mar-17	Vanguard Investments Australia Ltd	Buy	5.22	Ordinary	59,420	59,420
3-Mar-17	Vanguard Investments Australia Ltd	Buy	5.28	Ordinary	11,112	11,112
6-Mar-17	Vanguard Investments Australia Ltd	Buy	5.28	Ordinary	2,690	2,690
7-Mar-17	Vanguard Investments Australia Ltd	Buy	5.37	Ordinary	16,668	16,668
8-Mar-17	Vanguard Investments Australia Ltd	Buy	5.37	Ordinary	1,120	1,120
10-Mar-17	Vanguard Investments Australia Ltd	Sell	5.32	Ordinary	(43,770)	(43,770)
15-Mar-17	Vanguard Investments Australia Ltd	Buy	5.47	Ordinary	11,112	11,112
15-Mar-17	Vanguard Investments Australia Ltd	Buy	5.47	Ordinary	3,766	3,766
17-Mar-17	Vanguard Investments Australia Ltd	Buy	5.47	Ordinary	11,589	11,589
17-Mar-17	Vanguard Investments Australia Ltd	Sell	5.47	Ordinary	(18,743)	(18,743)
17-Mar-17	Vanguard Investments Australia Ltd	Buy	5.47	Ordinary	5,556	5,556
17-Mar-17	Vanguard Investments Australia Ltd	Sell	5.47	Ordinary	(44,073)	(44,073)
21-Mar-17	Vanguard Investments Australia Ltd	Buy	5.39	Ordinary	4,400	4,400
22-Mar-17	Vanguard Investments Australia Ltd	Sell	5.43	Ordinary	(41,035)	(41,035)
22-Mar-17	Vanguard Investments Australia Ltd	Sell	5.43	Ordinary	(1,011)	(1,011)
23-Mar-17	Vanguard Investments Australia Ltd	Buy	5.48	Ordinary	10,980	10,980
23-Mar-17	Vanguard Investments Australia Ltd	Buy	5.48	Ordinary	5,139	5,139
24-Mar-17	Vanguard Investments Australia Ltd	Buy	5.49	Ordinary	48,942	48,942
24-Mar-17	Vanguard Investments Australia Ltd	Sell	5.49	Ordinary	(48,942)	(48,942)
27-Mar-17	Vanguard Investments Australia Ltd	Sell	5.52	Ordinary	(24,283)	(24,283)
28-Mar-17	Vanguard Investments Australia Ltd	Buy	5.57	Ordinary	90,202	90,202
31-Mar-17	Vanguard Investments Australia Ltd	Buy	5.52	Ordinary	21,984	21,984

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-Mar-17	Vanguard Investments Australia Ltd	Sell	5.52	Ordinary	(109,408)	(109,408)
3-Apr-17	Vanguard Investments Australia Ltd	Buy	5.60	Ordinary	920	920
5-Apr-17	Vanguard Investments Australia Ltd	Buy	5.65	Ordinary	31,690	31,690
5-Apr-17	Vanguard Investments Australia Ltd	Buy	5.65	Ordinary	37,090	37,090
5-Apr-17	Vanguard Investments Australia Ltd	Buy	5.65	Ordinary	10,868	10,868
5-Apr-17	Vanguard Investments Australia Ltd	Buy	5.65	Ordinary	2,720	2,720
6-Apr-17	Vanguard Investments Australia Ltd	Buy	5.68	Ordinary	83,176	83,176
10-Apr-17	Vanguard Investments Australia Ltd	Buy	5.73	Ordinary	238,054	238,054
11-Apr-17	Vanguard Investments Australia Ltd	Buy	5.73	Ordinary	10,868	10,868
12-Apr-17	Vanguard Investments Australia Ltd	Sell	5.79	Ordinary	(31,575)	(31,575)
19-Apr-17	Vanguard Investments Australia Ltd	Buy	5.69	Ordinary	4,352	4,352
20-Apr-17	Vanguard Investments Australia Ltd	Buy	5.75	Ordinary	53,053	53,053
20-Apr-17	Vanguard Investments Australia Ltd	Buy	5.75	Ordinary	6,612	6,612
21-Apr-17	Vanguard Investments Australia Ltd	Buy	5.74	Ordinary	34,870	34,870
26-Apr-17	Vanguard Investments Australia Ltd	Sell	5.68	Ordinary	(3,423)	(3,423)
27-Apr-17	Vanguard Investments Australia Ltd	Buy	5.67	Ordinary	4,896	4,896
28-Apr-17	Vanguard Investments Australia Ltd	Buy	5.67	Ordinary	27,170	27,170
28-Apr-17	Vanguard Investments Australia Ltd	Buy	5.67	Ordinary	2,176	2,176
1-May-17	Vanguard Investments Australia Ltd	Sell	5.73	Ordinary	(4,809)	(4,809)
1-May-17	Vanguard Investments Australia Ltd	Sell	5.73	Ordinary	(47,682)	(47,682)
4-May-17	Vanguard Investments Australia Ltd	Buy	5.48	Ordinary	819	819
4-May-17	Vanguard Investments Australia Ltd	Buy	5.48	Ordinary	8,725	8,725
4-May-17	Vanguard Investments Australia Ltd	Buy	5.48	Ordinary	19,970	19,970
4-May-17	Vanguard Investments Australia Ltd	Buy	5.48	Ordinary	16,620	16,620
4-May-17	Vanguard Investments Australia Ltd	Buy	5.48	Ordinary	42,446	42,446
4-May-17	Vanguard Investments Australia Ltd	Buy	5.48	Ordinary	188,128	188,128
4-May-17	Vanguard Investments Australia Ltd	Buy	5.48	Ordinary	155,100	155,100
4-May-17	Vanguard Investments Australia Ltd	Buy	5.48	Ordinary	81,692	81,692
4-May-17	Vanguard Investments Australia Ltd	Buy	5.48	Ordinary	134,764	134,764
4-May-17	Vanguard Investments Australia Ltd	Buy	5.48	Ordinary	2,029,242	2,029,242
4-May-17	Vanguard Investments Australia Ltd	Buy	5.48	Ordinary	23,510	23,510
4-May-17	Vanguard Investments Australia Ltd	Buy	5.48	Ordinary	320,581	320,581
5-May-17	Vanguard Investments Australia Ltd	Buy	5.81	Ordinary	6,073	6,073
5-May-17	Vanguard Investments Australia Ltd	Buy	5.81	Ordinary	17,465	17,465
8-May-17	Vanguard Investments Australia Ltd	Buy	5.82	Ordinary	17,278	17,278
9-May-17	Vanguard Investments Australia Ltd	Sell	5.86	Ordinary	(5,874)	(5,874)
9-May-17	Vanguard Investments Australia Ltd	Buy	5.86	Ordinary	5,900	5,900
10-May-17	Vanguard Investments Australia Ltd	Buy	5.85	Ordinary	12,146	12,146
11-May-17	Vanguard Investments Australia Ltd	Buy	5.83	Ordinary	17,441	17,441
12-May-17	Vanguard Investments Australia Ltd	Buy	5.77	Ordinary	13,158	13,158
12-May-17	Vanguard Investments Australia Ltd	Buy	5.77	Ordinary	18,219	18,219
15-May-17	Vanguard Investments Australia Ltd	Buy	5.78	Ordinary	3,630	3,630
15-May-17	Vanguard Investments Australia Ltd	Sell	5.78	Ordinary	(63,818)	(63,818)
15-May-17	Vanguard Investments Australia Ltd	Buy	5.78	Ordinary	4,130	4,130
17-May-17	Vanguard Investments Australia Ltd	Buy	5.72	Ordinary	12,146	12,146
17-May-17	Vanguard Investments Australia Ltd	Buy	5.72	Ordinary	17,594	17,594
18-May-17	Vanguard Investments Australia Ltd	Buy	5.72	Ordinary	4,130	4,130
19-May-17	Vanguard Investments Australia Ltd	Buy	5.72	Ordinary	4,567	4,567
19-May-17	Vanguard Investments Australia Ltd	Sell	5.72	Ordinary	(5,609)	(5,609)
23-May-17	Vanguard Investments Australia Ltd	Sell	5.76	Ordinary	(12,827)	(12,827)
23-May-17	Vanguard Investments Australia Ltd	Buy	5.76	Ordinary	12,146	12,146
25-May-17	Vanguard Investments Australia Ltd	Sell	5.79	Ordinary	(11,445)	(11,445)
26-May-17	Vanguard Investments Australia Ltd	Buy	5.78	Ordinary	7,392	7,392
29-May-17	Vanguard Investments Australia Ltd	Buy	5.75	Ordinary	24,292	24,292
31-May-17	Vanguard Investments Australia Ltd	Buy	5.69	Ordinary	1,260	1,260
1-Jun-17	Vanguard Investments Australia Ltd	Buy	5.78	Ordinary	66,988	66,988
2-Jun-17	Vanguard Investments Australia Ltd	Buy	5.84	Ordinary	12,146	12,146
6-Jun-17	Vanguard Investments Australia Ltd	Sell	5.75	Ordinary	(5,233)	(5,233)
6-Jun-17	Vanguard Investments Australia Ltd	Buy	5.75	Ordinary	5,900	5,900
8-Jun-17	Vanguard Investments Australia Ltd	Sell	5.71	Ordinary	(231,260)	(231,260)
8-Jun-17	Vanguard Investments Australia Ltd	Buy	5.70	Ordinary	8,850	8,850
9-Jun-17	Vanguard Investments Australia Ltd	Sell	5.72	Ordinary	(9,443)	(9,443)
9-Jun-17	Vanguard Investments Australia Ltd	Buy	5.75	Ordinary	17,672	17,672
13-Jun-17	Vanguard Investments Australia Ltd	Sell	5.84	Ordinary	(1,237)	(1,237)
14-Jun-17	Vanguard Investments Australia Ltd	Buy	5.91	Ordinary	17,582	17,582
15-Jun-17	Vanguard Investments Australia Ltd	Buy	5.90	Ordinary	30,365	30,365
16-Jun-17	Vanguard Investments Australia Ltd	Sell	5.92	Ordinary	(28,104)	(28,104)
16-Jun-17	Vanguard Investments Australia Ltd	Buy	5.92	Ordinary	12,146	12,146
16-Jun-17	Vanguard Investments Australia Ltd	Buy	5.92	Ordinary	8,260	8,260

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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
20-Jun-17	Vanguard Investments Australia Ltd	Sell	5.86	Ordinary	(3,539)	(3,539)
20-Jun-17	Vanguard Investments Australia Ltd	Sell	5.86	Ordinary	(8,888)	(8,888)
20-Jun-17	Vanguard Investments Australia Ltd	Buy	5.86	Ordinary	3,168	3,168
21-Jun-17	Vanguard Investments Australia Ltd	Buy	5.78	Ordinary	12,158	12,158
22-Jun-17	Vanguard Investments Australia Ltd	Sell	5.76	Ordinary	(43,985)	(43,985)
22-Jun-17	Vanguard Investments Australia Ltd	Buy	5.76	Ordinary	5,280	5,280
23-Jun-17	Vanguard Investments Australia Ltd	Buy	5.75	Ordinary	7,479	7,479
27-Jun-17	Vanguard Investments Australia Ltd	Buy	5.70	Ordinary	18,153	18,153
27-Jun-17	Vanguard Investments Australia Ltd	Buy	5.70	Ordinary	4,752	4,752
29-Jun-17	Vanguard Investments Australia Ltd	Buy	5.58	Ordinary	36,906	36,906
30-Jun-17	Vanguard Investments Australia Ltd	Sell	5.50	Ordinary	(133,488)	(133,488)
30-Jun-17	Vanguard Investments Australia Ltd	Sell	5.50	Ordinary	(5,252)	(5,252)
30-Jun-17	Vanguard Investments Australia Ltd	Buy	5.50	Ordinary	5,280	5,280
3-Jul-17	Vanguard Investments Australia Ltd	Sell	5.44	Ordinary	(96,740)	(96,740)
3-Jul-17	Vanguard Investments Australia Ltd	Sell	5.44	Ordinary	(895)	(895)
3-Jul-17	Vanguard Investments Australia Ltd	Buy	5.44	Ordinary	5,280	5,280
5-Jul-17	Vanguard Investments Australia Ltd	Buy	5.42	Ordinary	6,109	6,109
5-Jul-17	Vanguard Investments Australia Ltd	Buy	5.42	Ordinary	12,218	12,218
6-Jul-17	Vanguard Investments Australia Ltd	Buy	5.43	Ordinary	59,389	59,389
6-Jul-17	Vanguard Investments Australia Ltd	Buy	5.43	Ordinary	122,180	122,180
6-Jul-17	Vanguard Investments Australia Ltd	Sell	5.43	Ordinary	(132,635)	(132,635)
10-Jul-17	Vanguard Investments Australia Ltd	Buy	5.40	Ordinary	6,336	6,336
11-Jul-17	Vanguard Investments Australia Ltd	Sell	5.34	Ordinary	(53,922)	(53,922)
11-Jul-17	Vanguard Investments Australia Ltd	Buy	5.34	Ordinary	18,327	18,327
11-Jul-17	Vanguard Investments Australia Ltd	Sell	5.34	Ordinary	(58,009)	(58,009)
12-Jul-17	Vanguard Investments Australia Ltd	Buy	5.19	Ordinary	9,612	9,612
12-Jul-17	Vanguard Investments Australia Ltd	Buy	5.19	Ordinary	3,696	3,696
13-Jul-17	Vanguard Investments Australia Ltd	Sell	5.26	Ordinary	(100,327)	(100,327)
13-Jul-17	Vanguard Investments Australia Ltd	Buy	5.26	Ordinary	60,258	60,258
13-Jul-17	Vanguard Investments Australia Ltd	Buy	5.26	Ordinary	6,109	6,109
13-Jul-17	Vanguard Investments Australia Ltd	Sell	5.26	Ordinary	(113,202)	(113,202)
13-Jul-17	Vanguard Investments Australia Ltd	Sell	5.26	Ordinary	(43,757)	(43,757)
17-Jul-17	Vanguard Investments Australia Ltd	Sell	5.29	Ordinary	(94,923)	(94,923)
17-Jul-17	Vanguard Investments Australia Ltd	Buy	5.28	Ordinary	18,327	18,327
17-Jul-17	Vanguard Investments Australia Ltd	Sell	5.29	Ordinary	(82,931)	(82,931)
18-Jul-17	Vanguard Investments Australia Ltd	Buy	5.20	Ordinary	3,696	3,696
20-Jul-17	Vanguard Investments Australia Ltd	Sell	5.24	Ordinary	(117,291)	(117,291)
20-Jul-17	Vanguard Investments Australia Ltd	Buy	5.25	Ordinary	62,592	62,592
20-Jul-17	Vanguard Investments Australia Ltd	Buy	5.25	Ordinary	18,327	18,327
20-Jul-17	Vanguard Investments Australia Ltd	Sell	5.24	Ordinary	(87,780)	(87,780)
24-Jul-17	Vanguard Investments Australia Ltd	Buy	5.18	Ordinary	54,981	54,981
24-Jul-17	Vanguard Investments Australia Ltd	Buy	5.18	Ordinary	7,392	7,392
25-Jul-17	Vanguard Investments Australia Ltd	Sell	5.23	Ordinary	(100,575)	(100,575)
25-Jul-17	Vanguard Investments Australia Ltd	Sell	5.22	Ordinary	(36,654)	(36,654)
25-Jul-17	Vanguard Investments Australia Ltd	Sell	5.23	Ordinary	(79,834)	(79,834)
27-Jul-17	Vanguard Investments Australia Ltd	Sell	5.27	Ordinary	(80,767)	(80,767)
27-Jul-17	Vanguard Investments Australia Ltd	Sell	5.27	Ordinary	(21,610)	(21,610)
28-Jul-17	Vanguard Investments Australia Ltd	Buy	5.17	Ordinary	7,209	7,209
31-Jul-17	Vanguard Investments Australia Ltd	Buy	5.19	Ordinary	4,224	4,224
3-Aug-17	Vanguard Investments Australia Ltd	Buy	5.29	Ordinary	12,218	12,218
3-Aug-17	Vanguard Investments Australia Ltd	Buy	5.29	Ordinary	5,808	5,808
4-Aug-17	Vanguard Investments Australia Ltd	Sell	5.29	Ordinary	(116,071)	(116,071)
8-Aug-17	Vanguard Investments Australia Ltd	Sell	5.33	Ordinary	(52,899)	(52,899)
8-Aug-17	Vanguard Investments Australia Ltd	Buy	5.33	Ordinary	978	978
9-Aug-17	Vanguard Investments Australia Ltd	Buy	5.34	Ordinary	6,109	6,109
9-Aug-17	Vanguard Investments Australia Ltd	Buy	5.34	Ordinary	18,327	18,327
10-Aug-17	Vanguard Investments Australia Ltd	Buy	5.35	Ordinary	19,566	19,566
11-Aug-17	Vanguard Investments Australia Ltd	Buy	5.35	Ordinary	7,392	7,392
15-Aug-17	Vanguard Investments Australia Ltd	Buy	5.45	Ordinary	9,736	9,736
22-Aug-17	Vanguard Investments Australia Ltd	Sell	5.75	Ordinary	(490)	(490)
22-Aug-17	Vanguard Investments Australia Ltd	Buy	5.75	Ordinary	11,613	11,613
22-Aug-17	Vanguard Investments Australia Ltd	Buy	5.75	Ordinary	12,784	12,784
23-Aug-17	Vanguard Investments Australia Ltd	Buy	5.69	Ordinary	3,696	3,696
23-Aug-17	Vanguard Investments Australia Ltd	Buy	5.69	Ordinary	4,224	4,224
23-Aug-17	Vanguard Investments Australia Ltd	Buy	5.84	Ordinary	1,680	1,680
25-Aug-17	Vanguard Investments Australia Ltd	Buy	5.55	Ordinary	18,468	18,468
28-Aug-17	Vanguard Investments Australia Ltd	Buy	5.56	Ordinary	47,538	47,538
29-Aug-17	Vanguard Investments Australia Ltd	Buy	5.53	Ordinary	20,057	20,057
30-Aug-17	Vanguard Investments Australia Ltd	Buy	5.56	Ordinary	119,125	119,125

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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-Aug-17	Vanguard Investments Australia Ltd	Buy	5.67	Ordinary	2,175	2,175
31-Aug-17	Vanguard Investments Australia Ltd	Buy	5.67	Ordinary	4,005	4,005
31-Aug-17	Vanguard Investments Australia Ltd	Buy	5.67	Ordinary	1,849	1,849
31-Aug-17	Vanguard Investments Australia Ltd	Buy	5.67	Ordinary	4,224	4,224
1-Sep-17	Vanguard Investments Australia Ltd	Buy	5.59	Ordinary	18,468	18,468
5-Sep-17	Vanguard Investments Australia Ltd	Buy	5.63	Ordinary	58,431	58,431
6-Sep-17	Vanguard Investments Australia Ltd	Buy	5.70	Ordinary	934	934
8-Sep-17	Vanguard Investments Australia Ltd	Buy	5.65	Ordinary	5,808	5,808
11-Sep-17	Vanguard Investments Australia Ltd	Sell	5.69	Ordinary	(2,167)	(2,167)
14-Sep-17	Vanguard Investments Australia Ltd	Buy	5.77	Ordinary	6,184	6,184
15-Sep-17	Vanguard Investments Australia Ltd	Buy	5.70	Ordinary	2,008,183	2,008,183
15-Sep-17	Vanguard Investments Australia Ltd	Buy	5.70	Ordinary	141,415	141,415
15-Sep-17	Vanguard Investments Australia Ltd	Buy	5.69	Ordinary	18,552	18,552
15-Sep-17	Vanguard Investments Australia Ltd	Buy	5.70	Ordinary	63,495	63,495
15-Sep-17	Vanguard Investments Australia Ltd	Buy	5.70	Ordinary	53,651	53,651
19-Sep-17	Vanguard Investments Australia Ltd	Sell	5.63	Ordinary	(2,738)	(2,738)
21-Sep-17	Vanguard Investments Australia Ltd	Buy	5.40	Ordinary	30,885	30,885
21-Sep-17	Vanguard Investments Australia Ltd	Buy	5.40	Ordinary	7,742	7,742
26-Sep-17	Vanguard Investments Australia Ltd	Buy	5.35	Ordinary	18,802	18,802
27-Sep-17	Vanguard Investments Australia Ltd	Buy	5.36	Ordinary	30,137	30,137
27-Sep-17	Vanguard Investments Australia Ltd	Sell	5.36	Ordinary	(2,804)	(2,804)
27-Sep-17	Vanguard Investments Australia Ltd	Buy	5.36	Ordinary	17,565	17,565
28-Sep-17	Vanguard Investments Australia Ltd	Buy	5.34	Ordinary	84,056	84,056
29-Sep-17	Vanguard Investments Australia Ltd	Sell	5.37	Ordinary	(32,832)	(32,832)
3-Oct-17	Vanguard Investments Australia Ltd	Sell	5.37	Ordinary	(11,974)	(11,974)
3-Oct-17	Vanguard Investments Australia Ltd	Buy	5.37	Ordinary	18,450	18,450
4-Oct-17	Vanguard Investments Australia Ltd	Buy	5.34	Ordinary	4,860	4,860
6-Oct-17	Vanguard Investments Australia Ltd	Buy	5.34	Ordinary	23,732	23,732
9-Oct-17	Vanguard Investments Australia Ltd	Sell	5.41	Ordinary	(69,515)	(69,515)
9-Oct-17	Vanguard Investments Australia Ltd	Buy	5.41	Ordinary	12,092	12,092
9-Oct-17	Vanguard Investments Australia Ltd	Sell	5.41	Ordinary	(12,092)	(12,092)
10-Oct-17	Vanguard Investments Australia Ltd	Buy	5.39	Ordinary	9,760	9,760
11-Oct-17	Vanguard Investments Australia Ltd	Sell	5.46	Ordinary	(54,400)	(54,400)
12-Oct-17	Vanguard Investments Australia Ltd	Buy	5.48	Ordinary	12,300	12,300
16-Oct-17	Vanguard Investments Australia Ltd	Sell	5.53	Ordinary	(1,241)	(1,241)
16-Oct-17	Vanguard Investments Australia Ltd	Sell	5.53	Ordinary	(63,853)	(63,853)
18-Oct-17	Vanguard Investments Australia Ltd	Sell	5.57	Ordinary	(47,957)	(47,957)
18-Oct-17	Vanguard Investments Australia Ltd	Buy	5.57	Ordinary	47,276	47,276
25-Oct-17	Vanguard Investments Australia Ltd	Sell	5.64	Ordinary	(156,773)	(156,773)
27-Oct-17	Vanguard Investments Australia Ltd	Buy	5.68	Ordinary	18,450	18,450
27-Oct-17	Vanguard Investments Australia Ltd	Buy	5.68	Ordinary	2,916	2,916
1-Nov-17	Vanguard Investments Australia Ltd	Buy	5.85	Ordinary	18,021	18,021
3-Nov-17	Vanguard Investments Australia Ltd	Sell	5.91	Ordinary	(2,600)	(2,600)
6-Nov-17	Vanguard Investments Australia Ltd	Buy	6.00	Ordinary	18,450	18,450
7-Nov-17	Vanguard Investments Australia Ltd	Buy	6.00	Ordinary	7,317	7,317
7-Nov-17	Vanguard Investments Australia Ltd	Buy	6.00	Ordinary	3,159	3,159
8-Nov-17	Vanguard Investments Australia Ltd	Sell	6.02	Ordinary	(3,865)	(3,865)
14-Nov-17	Vanguard Investments Australia Ltd	Sell	6.10	Ordinary	(3,770)	(3,770)
15-Nov-17	Vanguard Investments Australia Ltd	Buy	6.11	Ordinary	12,300	12,300
16-Nov-17	Vanguard Investments Australia Ltd	Sell	6.16	Ordinary	(5,772)	(5,772)
16-Nov-17	Vanguard Investments Australia Ltd	Buy	6.16	Ordinary	3,186	3,186
20-Nov-17	Vanguard Investments Australia Ltd	Buy	6.14	Ordinary	9,756	9,756
22-Nov-17	Vanguard Investments Australia Ltd	Buy	6.15	Ordinary	24,600	24,600
22-Nov-17	Vanguard Investments Australia Ltd	Buy	6.15	Ordinary	3,540	3,540
24-Nov-17	Vanguard Investments Australia Ltd	Sell	6.20	Ordinary	(10,232)	(10,232)
24-Nov-17	Vanguard Investments Australia Ltd	Sell	6.20	Ordinary	(3,791)	(3,791)
24-Nov-17	Vanguard Investments Australia Ltd	Buy	6.20	Ordinary	4,602	4,602
29-Nov-17	Vanguard Investments Australia Ltd	Sell	6.28	Ordinary	(24,600)	(24,600)
30-Nov-17	Vanguard Investments Australia Ltd	Sell	6.31	Ordinary	(12,899)	(12,899)
1-Dec-17	Vanguard Investments Australia Ltd	Buy	6.29	Ordinary	9,380	9,380
4-Dec-17	Vanguard Investments Australia Ltd	Sell	6.29	Ordinary	(4,582)	(4,582)
4-Dec-17	Vanguard Investments Australia Ltd	Buy	6.29	Ordinary	4,582	4,582
4-Dec-17	Vanguard Investments Australia Ltd	Sell	6.29	Ordinary	(70,504)	(70,504)
4-Dec-17	Vanguard Investments Australia Ltd	Sell	6.29	Ordinary	(22,353)	(22,353)
5-Dec-17	Vanguard Investments Australia Ltd	Buy	6.13	Ordinary	18,450	18,450
5-Dec-17	Vanguard Investments Australia Ltd	Buy	6.13	Ordinary	12,300	12,300
5-Dec-17	Vanguard Investments Australia Ltd	Sell	6.13	Ordinary	(48,955)	(48,955)
5-Dec-17	Vanguard Investments Australia Ltd	Sell	6.13	Ordinary	(7,788)	(7,788)
6-Dec-17	Vanguard Investments Australia Ltd	Buy	6.21	Ordinary	121,399	121,399

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
11-Dec-17	Vanguard Investments Australia Ltd	Sell	6.34	Ordinary	(5,472)	(5,472)
11-Dec-17	Vanguard Investments Australia Ltd	Sell	6.34	Ordinary	(36,977)	(36,977)
11-Dec-17	Vanguard Investments Australia Ltd	Sell	6.34	Ordinary	(1,393)	(1,393)
12-Dec-17	Vanguard Investments Australia Ltd	Sell	6.39	Ordinary	(6,605)	(6,605)
14-Dec-17	Vanguard Investments Australia Ltd	Buy	6.38	Ordinary	2,285	2,285
15-Dec-17	Vanguard Investments Australia Ltd	Buy	6.39	Ordinary	10,092	10,092
18-Dec-17	Vanguard Investments Australia Ltd	Sell	6.41	Ordinary	(5,669)	(5,669)
19-Dec-17	Vanguard Investments Australia Ltd	Buy	6.43	Ordinary	61,450	61,450
19-Dec-17	Vanguard Investments Australia Ltd	Buy	6.43	Ordinary	12,290	12,290
20-Dec-17	Vanguard Investments Australia Ltd	Sell	6.36	Ordinary	(32,293)	(32,293)
20-Dec-17	Vanguard Investments Australia Ltd	Buy	6.36	Ordinary	11,645	11,645
20-Dec-17	Vanguard Investments Australia Ltd	Buy	6.36	Ordinary	3,825	3,825
27-Dec-17	Vanguard Investments Australia Ltd	Buy	6.14	Ordinary	61,450	61,450
28-Dec-17	Vanguard Investments Australia Ltd	Buy	6.06	Ordinary	167,274	167,274
28-Dec-17	Vanguard Investments Australia Ltd	Sell	6.08	Ordinary	(124,740)	(124,740)
28-Dec-17	Vanguard Investments Australia Ltd	Buy	6.06	Ordinary	20,113	20,113
29-Dec-17	Vanguard Investments Australia Ltd	Sell	6.02	Ordinary	(2,069)	(2,069)
4-Jan-18	Vanguard Investments Australia Ltd	Buy	6.05	Ordinary	22,953	22,953
4-Jan-18	Vanguard Investments Australia Ltd	Buy	6.05	Ordinary	6,927	6,927
8-Jan-18	Vanguard Investments Australia Ltd	Buy	6.14	Ordinary	12,448	12,448
10-Jan-18	Vanguard Investments Australia Ltd	Sell	6.03	Ordinary	(5,525)	(5,525)
11-Jan-18	Vanguard Investments Australia Ltd	Sell	5.97	Ordinary	(3,370)	(3,370)
16-Jan-18	Vanguard Investments Australia Ltd	Buy	5.86	Ordinary	12,448	12,448
16-Jan-18	Vanguard Investments Australia Ltd	Sell	5.87	Ordinary	(193,025)	(193,025)
16-Jan-18	Vanguard Investments Australia Ltd	Buy	5.86	Ordinary	4,250	4,250
18-Jan-18	Vanguard Investments Australia Ltd	Sell	5.86	Ordinary	(10,972)	(10,972)
24-Jan-18	Vanguard Investments Australia Ltd	Buy	6.04	Ordinary	13,854	13,854
24-Jan-18	Vanguard Investments Australia Ltd	Buy	6.04	Ordinary	2,975	2,975
25-Jan-18	Vanguard Investments Australia Ltd	Sell	5.97	Ordinary	(15,771)	(15,771)
25-Jan-18	Vanguard Investments Australia Ltd	Buy	5.97	Ordinary	12,448	12,448
25-Jan-18	Vanguard Investments Australia Ltd	Buy	5.97	Ordinary	19,996	19,996
29-Jan-18	Vanguard Investments Australia Ltd	Buy	5.90	Ordinary	2,550	2,550
31-Jan-18	Vanguard Investments Australia Ltd	Sell	5.90	Ordinary	(3,349)	(3,349)
1-Feb-18	Vanguard Investments Australia Ltd	Sell	5.93	Ordinary	(32,300)	(32,300)
2-Feb-18	Vanguard Investments Australia Ltd	Buy	5.94	Ordinary	12,448	12,448
6-Feb-18	Vanguard Investments Australia Ltd	Buy	5.58	Ordinary	2,550	2,550
9-Feb-18	Vanguard Investments Australia Ltd	Buy	5.61	Ordinary	5,100	5,100
13-Feb-18	Vanguard Investments Australia Ltd	Sell	5.60	Ordinary	(37,632)	(37,632)
15-Feb-18	Vanguard Investments Australia Ltd	Sell	5.65	Ordinary	(1,662)	(1,662)
20-Feb-18	Vanguard Investments Australia Ltd	Buy	5.74	Ordinary	3,324	3,324
23-Feb-18	Vanguard Investments Australia Ltd	Sell	5.81	Ordinary	(6,886)	(6,886)
26-Feb-18	Vanguard Investments Australia Ltd	Buy	5.86	Ordinary	14,609	14,609
26-Feb-18	Vanguard Investments Australia Ltd	Buy	5.86	Ordinary	12,544	12,544
26-Feb-18	Vanguard Investments Australia Ltd	Buy	5.86	Ordinary	125,589	125,589

This is Annexure A of 11 pages referred to in Form 604, Notice of change of interests of substantial holder.

Signature

Date 1-Mar-18