

Form 604
Corporations Act 2001
Section 671B

Notice of change of interests of substantial holder

To Company Name/Scheme Woodside Petroleum Ltd.
ACN/ARSN 004 898 962

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 31 October 2019

The previous notice was given to the company on 14 June 2018

The previous notice was dated 14 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	47,017,778	5.022%	56,772,669	6.025%

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	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 – 2,683,084	2,683,084
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 – 27,696,048	27,696,048
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 – 2,457,263	2,457,263
Vanguard Group	Citibank	Various funds and other accounts of Vanguard Group	Vanguard Group is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares. The other members of Vanguard Group have a relevant interest under section 608(3) of the Corporations Act.	Ordinary – 16,297	16,297
Vanguard Group	State Street Bank and Trust Company	Various funds and other accounts of Vanguard Group	Vanguard Group is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares. The other members of Vanguard Group have a relevant interest under section 608(3) of the Corporations Act.	Ordinary – 8,503,514	8,503,514
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 – 15,416,463	15,416,463

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 Keith Delgado capacity Compliance Manager

sign here  date 05 November 2019

DIRECTIONS

- (1) If there are a number of substantial holders with similar or related relevant interests (eg. a corporation and its related corporations, or the manager and trustee of an equity trust), the names could be included in an annexure to the form. If the relevant interests of a group of persons are essentially similar, they may be referred to throughout the form as a specifically named group if the membership of each group, with the names and addresses of members is clearly set out in paragraph 6 of the form.
- (2) See the definition of "associate" in section 9 of the Corporations Act 2001.
- (3) See the definition of "relevant interest" in sections 608 and 671B(7) of the Corporations Act 2001.
- (4) The voting shares of a company constitute one class unless divided into separate classes.
- (5) The person's votes divided by the total votes in the body corporate or scheme multiplied by 100.
- (6) Include details of:
 - (a) any relevant agreement or other circumstances because of which the change in relevant interest occurred. If subsection 671B(4) applies, a copy of any document setting out the terms of any relevant agreement, and a statement by the person giving full and accurate details of any contract, scheme or arrangement, must accompany this form, together with a written statement certifying this contract, scheme or arrangement; and
 - (b) any qualification of the power of a person to exercise, control the exercise of, or influence the exercise of, the voting powers or disposal of the securities to which the relevant interest relates (indicating clearly the particular securities to which the qualification applies).See the definition of "relevant agreement" in section 9 of the Corporations Act 2001.
- (7) Details of the consideration must include any and all benefits, money and other, that any person from whom a relevant interest was acquired has, or may, become entitled to receive in relation to that acquisition. Details must be included even if the benefit is conditional on the happening or not of a contingency. Details must be included of any benefit paid on behalf of the substantial holder or its associate in relation to the acquisitions, even if they are not paid directly to the person from whom the relevant interest was acquired.
- (8) If the substantial holder is unable to determine the identity of the person (eg. if the relevant interest arises because of an option) write "unknown".
- (9) Give details, if appropriate, of the present association and any change in that association since the last substantial holding notice.

Annexure A

To Company Woodside Petroleum Ltd.
ACN/ARSN 004 898 962

Substantial Holder Name Vanguard Group
ACN/ARSN N/A

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
14-Jun-2018	The Vanguard Group, Inc.	BUY	33.42	Ordinary	6,617	6,617
14-Jun-2018	The Vanguard Group, Inc.	BUY	33.64	Ordinary	1,194	1,194
15-Jun-2018	The Vanguard Group, Inc.	SELL	34.26	Ordinary	(3,292)	(3,292)
15-Jun-2018	The Vanguard Group, Inc.	SELL	34.26	Ordinary	(88,533)	(88,533)
15-Jun-2018	The Vanguard Group, Inc.	SELL	34.26	Ordinary	(23,070)	(23,070)
15-Jun-2018	The Vanguard Group, Inc.	SELL	34.26	Ordinary	(10,978)	(10,978)
15-Jun-2018	The Vanguard Group, Inc.	SELL	34.26	Ordinary	(572)	(572)
19-Jun-2018	The Vanguard Group, Inc.	BUY	34.44	Ordinary	79,898	79,898
20-Jun-2018	The Vanguard Group, Inc.	BUY	34.66	Ordinary	31,934	31,934
20-Jun-2018	The Vanguard Group, Inc.	BUY	34.77	Ordinary	8,294	8,294
21-Jun-2018	The Vanguard Group, Inc.	SELL	34.90	Ordinary	(346)	(346)
26-Jun-2018	The Vanguard Group, Inc.	BUY	34.53	Ordinary	58,524	58,524
27-Jun-2018	The Vanguard Group, Inc.	BUY	35.03	Ordinary	24,396	24,396
27-Jun-2018	The Vanguard Group, Inc.	BUY	34.97	Ordinary	2,552	2,552
27-Jun-2018	The Vanguard Group, Inc.	SELL	35.05	Ordinary	(730)	(730)
29-Jun-2018	The Vanguard Group, Inc.	BUY	35.46	Ordinary	1,328	1,328
29-Jun-2018	The Vanguard Group, Inc.	BUY	35.46	Ordinary	3,336	3,336
29-Jun-2018	The Vanguard Group, Inc.	BUY	35.46	Ordinary	12,653	12,653
29-Jun-2018	The Vanguard Group, Inc.	BUY	35.46	Ordinary	31,791	31,791
3-Jul-2018	The Vanguard Group, Inc.	BUY	35.28	Ordinary	38,754	38,754
3-Jul-2018	The Vanguard Group, Inc.	BUY	35.30	Ordinary	1,260	1,260
3-Jul-2018	The Vanguard Group, Inc.	SELL	35.20	Ordinary	(5,926)	(5,926)
3-Jul-2018	The Vanguard Group, Inc.	BUY	35.30	Ordinary	1,914	1,914
4-Jul-2018	The Vanguard Group, Inc.	SELL	35.48	Ordinary	(8,287)	(8,287)
4-Jul-2018	The Vanguard Group, Inc.	BUY	35.28	Ordinary	6,397	6,397
5-Jul-2018	The Vanguard Group, Inc.	BUY	35.47	Ordinary	30,663	30,663
6-Jul-2018	The Vanguard Group, Inc.	BUY	35.64	Ordinary	5,992	5,992
6-Jul-2018	The Vanguard Group, Inc.	BUY	36.11	Ordinary	3,024	3,024
6-Jul-2018	The Vanguard Group, Inc.	BUY	35.88	Ordinary	5,215	5,215
11-Jul-2018	The Vanguard Group, Inc.	BUY	36.33	Ordinary	525	525
12-Jul-2018	The Vanguard Group, Inc.	SELL	35.06	Ordinary	(987)	(987)
12-Jul-2018	The Vanguard Group, Inc.	SELL	35.81	Ordinary	(4,224)	(4,224)
12-Jul-2018	The Vanguard Group, Inc.	SELL	35.06	Ordinary	(458)	(458)
12-Jul-2018	The Vanguard Group, Inc.	SELL	35.82	Ordinary	(14,423)	(14,423)
17-Jul-2018	The Vanguard Group, Inc.	BUY	35.04	Ordinary	32,101	32,101
17-Jul-2018	The Vanguard Group, Inc.	BUY	34.73	Ordinary	534	534
18-Jul-2018	The Vanguard Group, Inc.	SELL	34.86	Ordinary	(6,709)	(6,709)
18-Jul-2018	The Vanguard Group, Inc.	BUY	34.86	Ordinary	27,706	27,706
19-Jul-2018	The Vanguard Group, Inc.	BUY	34.20	Ordinary	418	418
20-Jul-2018	The Vanguard Group, Inc.	SELL	34.45	Ordinary	(4,852)	(4,852)
20-Jul-2018	The Vanguard Group, Inc.	BUY	34.39	Ordinary	2,520	2,520
20-Jul-2018	The Vanguard Group, Inc.	BUY	34.45	Ordinary	6,035	6,035
23-Jul-2018	The Vanguard Group, Inc.	SELL	34.65	Ordinary	(2,727)	(2,727)
24-Jul-2018	The Vanguard Group, Inc.	BUY	34.75	Ordinary	25,602	25,602
24-Jul-2018	The Vanguard Group, Inc.	SELL	34.70	Ordinary	(392)	(392)
24-Jul-2018	The Vanguard Group, Inc.	BUY	34.67	Ordinary	418	418
24-Jul-2018	The Vanguard Group, Inc.	BUY	34.67	Ordinary	1,239	1,239
25-Jul-2018	The Vanguard Group, Inc.	SELL	34.85	Ordinary	(2,727)	(2,727)
25-Jul-2018	The Vanguard Group, Inc.	SELL	34.85	Ordinary	(13,635)	(13,635)
25-Jul-2018	The Vanguard Group, Inc.	SELL	34.85	Ordinary	(1,818)	(1,818)
25-Jul-2018	The Vanguard Group, Inc.	SELL	34.66	Ordinary	(680)	(680)
27-Jul-2018	The Vanguard Group, Inc.	SELL	35.63	Ordinary	(4,811)	(4,811)
30-Jul-2018	The Vanguard Group, Inc.	SELL	35.50	Ordinary	(4,376)	(4,376)
31-Jul-2018	The Vanguard Group, Inc.	SELL	36.08	Ordinary	(3,190)	(3,190)
1-Aug-2018	The Vanguard Group, Inc.	BUY	36.08	Ordinary	55,082	55,082
1-Aug-2018	The Vanguard Group, Inc.	SELL	36.00	Ordinary	(250)	(250)
2-Aug-2018	The Vanguard Group, Inc.	SELL	35.97	Ordinary	(9,090)	(9,090)
3-Aug-2018	The Vanguard Group, Inc.	SELL	36.15	Ordinary	(2,802)	(2,802)
3-Aug-2018	The Vanguard Group, Inc.	BUY	36.15	Ordinary	687	687
6-Aug-2018	The Vanguard Group, Inc.	BUY	36.37	Ordinary	5,550	5,550
7-Aug-2018	The Vanguard Group, Inc.	BUY	36.58	Ordinary	36,938	36,938
8-Aug-2018	The Vanguard Group, Inc.	BUY	36.64	Ordinary	23,740	23,740
8-Aug-2018	The Vanguard Group, Inc.	SELL	36.70	Ordinary	(241)	(241)

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-Aug-2018	The Vanguard Group, Inc.	SELL	36.33	Ordinary	(5,742)	(5,742)
10-Aug-2018	The Vanguard Group, Inc.	SELL	35.95	Ordinary	(18,400)	(18,400)
10-Aug-2018	The Vanguard Group, Inc.	SELL	36.08	Ordinary	(21,816)	(21,816)
10-Aug-2018	The Vanguard Group, Inc.	SELL	36.08	Ordinary	(3,190)	(3,190)
10-Aug-2018	The Vanguard Group, Inc.	SELL	36.08	Ordinary	(5,742)	(5,742)
13-Aug-2018	The Vanguard Group, Inc.	SELL	36.04	Ordinary	(8,455)	(8,455)
13-Aug-2018	The Vanguard Group, Inc.	BUY	35.85	Ordinary	762	762
14-Aug-2018	The Vanguard Group, Inc.	BUY	36.23	Ordinary	22,818	22,818
14-Aug-2018	The Vanguard Group, Inc.	SELL	36.23	Ordinary	(11,484)	(11,484)
15-Aug-2018	The Vanguard Group, Inc.	SELL	35.69	Ordinary	(10,908)	(10,908)
15-Aug-2018	The Vanguard Group, Inc.	BUY	35.74	Ordinary	35,965	35,965
15-Aug-2018	The Vanguard Group, Inc.	BUY	35.74	Ordinary	12,835	12,835
16-Aug-2018	The Vanguard Group, Inc.	SELL	36.50	Ordinary	(18,542)	(18,542)
16-Aug-2018	The Vanguard Group, Inc.	BUY	36.00	Ordinary	27,762	27,762
16-Aug-2018	The Vanguard Group, Inc.	BUY	36.51	Ordinary	1,791	1,791
17-Aug-2018	The Vanguard Group, Inc.	BUY	36.64	Ordinary	34,888	34,888
17-Aug-2018	The Vanguard Group, Inc.	BUY	36.74	Ordinary	1,764	1,764
17-Aug-2018	The Vanguard Group, Inc.	BUY	36.64	Ordinary	4,358	4,358
20-Aug-2018	The Vanguard Group, Inc.	BUY	37.30	Ordinary	35,054	35,054
21-Aug-2018	The Vanguard Group, Inc.	BUY	36.51	Ordinary	2,552	2,552
21-Aug-2018	The Vanguard Group, Inc.	BUY	36.56	Ordinary	942	942
21-Aug-2018	The Vanguard Group, Inc.	BUY	36.56	Ordinary	709	709
24-Aug-2018	The Vanguard Group, Inc.	SELL	35.81	Ordinary	(21,821)	(21,821)
24-Aug-2018	The Vanguard Group, Inc.	BUY	35.79	Ordinary	2,772	2,772
24-Aug-2018	The Vanguard Group, Inc.	BUY	35.81	Ordinary	21,821	21,821
27-Aug-2018	The Vanguard Group, Inc.	BUY	36.45	Ordinary	3,190	3,190
28-Aug-2018	The Vanguard Group, Inc.	BUY	37.00	Ordinary	418	418
31-Aug-2018	The Vanguard Group, Inc.	BUY	36.92	Ordinary	20,025	20,025
31-Aug-2018	The Vanguard Group, Inc.	BUY	36.92	Ordinary	83,940	83,940
31-Aug-2018	The Vanguard Group, Inc.	BUY	37.08	Ordinary	21,853	21,853
31-Aug-2018	The Vanguard Group, Inc.	BUY	36.92	Ordinary	2,823	2,823
31-Aug-2018	The Vanguard Group, Inc.	BUY	36.92	Ordinary	12,306	12,306
31-Aug-2018	The Vanguard Group, Inc.	BUY	36.92	Ordinary	68,889	68,889
5-Sep-2018	The Vanguard Group, Inc.	BUY	36.35	Ordinary	70,294	70,294
5-Sep-2018	The Vanguard Group, Inc.	SELL	36.48	Ordinary	(399)	(399)
5-Sep-2018	The Vanguard Group, Inc.	SELL	36.28	Ordinary	(696)	(696)
6-Sep-2018	The Vanguard Group, Inc.	BUY	35.91	Ordinary	24,649	24,649
7-Sep-2018	The Vanguard Group, Inc.	SELL	35.28	Ordinary	(16,021)	(16,021)
7-Sep-2018	The Vanguard Group, Inc.	BUY	35.06	Ordinary	23,393	23,393
7-Sep-2018	The Vanguard Group, Inc.	BUY	35.44	Ordinary	13,280	13,280
7-Sep-2018	The Vanguard Group, Inc.	BUY	35.44	Ordinary	4,224	4,224
7-Sep-2018	The Vanguard Group, Inc.	BUY	35.44	Ordinary	6,380	6,380
7-Sep-2018	The Vanguard Group, Inc.	BUY	35.44	Ordinary	1,914	1,914
7-Sep-2018	The Vanguard Group, Inc.	BUY	35.28	Ordinary	218	218
10-Sep-2018	The Vanguard Group, Inc.	BUY	35.55	Ordinary	1,720	1,720
11-Sep-2018	The Vanguard Group, Inc.	BUY	35.89	Ordinary	19,844	19,844
12-Sep-2018	The Vanguard Group, Inc.	BUY	36.71	Ordinary	49,808	49,808
12-Sep-2018	The Vanguard Group, Inc.	BUY	36.67	Ordinary	6,336	6,336
12-Sep-2018	The Vanguard Group, Inc.	BUY	36.67	Ordinary	6,380	6,380
12-Sep-2018	The Vanguard Group, Inc.	SELL	36.50	Ordinary	(383)	(383)
12-Sep-2018	The Vanguard Group, Inc.	SELL	36.70	Ordinary	(60,348)	(60,348)
14-Sep-2018	The Vanguard Group, Inc.	BUY	36.65	Ordinary	170	170
17-Sep-2018	The Vanguard Group, Inc.	BUY	37.07	Ordinary	7,715	7,715
20-Sep-2018	The Vanguard Group, Inc.	BUY	36.68	Ordinary	4,405	4,405
20-Sep-2018	The Vanguard Group, Inc.	BUY	36.76	Ordinary	1,004	1,004
21-Sep-2018	The Vanguard Group, Inc.	BUY	37.19	Ordinary	6,305	6,305
21-Sep-2018	The Vanguard Group, Inc.	SELL	36.95	Ordinary	(88,157)	(88,157)
21-Sep-2018	The Vanguard Group, Inc.	SELL	36.95	Ordinary	(25,748)	(25,748)
21-Sep-2018	The Vanguard Group, Inc.	BUY	36.95	Ordinary	10,450	10,450
21-Sep-2018	The Vanguard Group, Inc.	SELL	36.95	Ordinary	(9,544)	(9,544)
21-Sep-2018	The Vanguard Group, Inc.	SELL	36.95	Ordinary	(396)	(396)
25-Sep-2018	The Vanguard Group, Inc.	BUY	37.99	Ordinary	58,675	58,675
25-Sep-2018	The Vanguard Group, Inc.	BUY	37.60	Ordinary	7,901	7,901
26-Sep-2018	The Vanguard Group, Inc.	BUY	38.49	Ordinary	8,272	8,272
26-Sep-2018	The Vanguard Group, Inc.	BUY	38.49	Ordinary	4,136	4,136
26-Sep-2018	The Vanguard Group, Inc.	BUY	38.49	Ordinary	10,340	10,340
26-Sep-2018	The Vanguard Group, Inc.	BUY	38.55	Ordinary	292	292
26-Sep-2018	The Vanguard Group, Inc.	SELL	38.55	Ordinary	(170)	(170)
27-Sep-2018	The Vanguard Group, Inc.	SELL	38.63	Ordinary	(7,139)	(7,139)

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
27-Sep-2018	The Vanguard Group, Inc.	BUY	38.64	Ordinary	2,560	2,560
28-Sep-2018	The Vanguard Group, Inc.	BUY	38.58	Ordinary	232	232
1-Oct-2018	The Vanguard Group, Inc.	BUY	38.53	Ordinary	6,204	6,204
2-Oct-2018	The Vanguard Group, Inc.	BUY	38.44	Ordinary	16,544	16,544
2-Oct-2018	The Vanguard Group, Inc.	SELL	38.60	Ordinary	(360)	(360)
2-Oct-2018	The Vanguard Group, Inc.	SELL	38.60	Ordinary	(11,562)	(11,562)
2-Oct-2018	The Vanguard Group, Inc.	SELL	38.44	Ordinary	(2,935)	(2,935)
3-Oct-2018	The Vanguard Group, Inc.	BUY	38.71	Ordinary	6,204	6,204
3-Oct-2018	The Vanguard Group, Inc.	BUY	38.71	Ordinary	4,014	4,014
5-Oct-2018	The Vanguard Group, Inc.	BUY	38.99	Ordinary	42,499	42,499
8-Oct-2018	The Vanguard Group, Inc.	BUY	38.71	Ordinary	10,933	10,933
8-Oct-2018	The Vanguard Group, Inc.	BUY	38.32	Ordinary	5,192	5,192
9-Oct-2018	The Vanguard Group, Inc.	BUY	37.81	Ordinary	11,373	11,373
11-Oct-2018	The Vanguard Group, Inc.	BUY	36.26	Ordinary	5,388	5,388
12-Oct-2018	The Vanguard Group, Inc.	BUY	36.13	Ordinary	42,983	42,983
15-Oct-2018	The Vanguard Group, Inc.	BUY	35.97	Ordinary	8,980	8,980
16-Oct-2018	The Vanguard Group, Inc.	BUY	36.02	Ordinary	36,514	36,514
16-Oct-2018	The Vanguard Group, Inc.	SELL	36.11	Ordinary	(383)	(383)
16-Oct-2018	The Vanguard Group, Inc.	BUY	35.90	Ordinary	90	90
16-Oct-2018	The Vanguard Group, Inc.	BUY	36.02	Ordinary	6,736	6,736
18-Oct-2018	The Vanguard Group, Inc.	SELL	36.00	Ordinary	(479)	(479)
18-Oct-2018	The Vanguard Group, Inc.	BUY	36.14	Ordinary	246	246
19-Oct-2018	The Vanguard Group, Inc.	BUY	36.02	Ordinary	5,388	5,388
19-Oct-2018	The Vanguard Group, Inc.	BUY	36.04	Ordinary	31,634	31,634
19-Oct-2018	The Vanguard Group, Inc.	BUY	36.02	Ordinary	6,204	6,204
22-Oct-2018	The Vanguard Group, Inc.	BUY	35.78	Ordinary	414	414
23-Oct-2018	The Vanguard Group, Inc.	BUY	34.75	Ordinary	5,846	5,846
24-Oct-2018	The Vanguard Group, Inc.	BUY	34.18	Ordinary	31,266	31,266
24-Oct-2018	The Vanguard Group, Inc.	SELL	33.53	Ordinary	(4,543)	(4,543)
25-Oct-2018	The Vanguard Group, Inc.	BUY	33.72	Ordinary	22,172	22,172
25-Oct-2018	The Vanguard Group, Inc.	BUY	33.72	Ordinary	15,987	15,987
25-Oct-2018	The Vanguard Group, Inc.	BUY	33.73	Ordinary	5,170	5,170
26-Oct-2018	The Vanguard Group, Inc.	BUY	33.26	Ordinary	4,934	4,934
26-Oct-2018	The Vanguard Group, Inc.	BUY	33.63	Ordinary	27,107	27,107
26-Oct-2018	The Vanguard Group, Inc.	BUY	33.26	Ordinary	26,171	26,171
26-Oct-2018	The Vanguard Group, Inc.	BUY	33.26	Ordinary	13,627	13,627
26-Oct-2018	The Vanguard Group, Inc.	BUY	33.26	Ordinary	8,402	8,402
26-Oct-2018	The Vanguard Group, Inc.	BUY	33.26	Ordinary	903	903
26-Oct-2018	The Vanguard Group, Inc.	BUY	33.26	Ordinary	2,351	2,351
30-Oct-2018	The Vanguard Group, Inc.	BUY	34.08	Ordinary	14,977	14,977
31-Oct-2018	The Vanguard Group, Inc.	BUY	34.84	Ordinary	31,005	31,005
31-Oct-2018	The Vanguard Group, Inc.	BUY	34.77	Ordinary	7,238	7,238
31-Oct-2018	The Vanguard Group, Inc.	BUY	34.85	Ordinary	338	338
1-Nov-2018	The Vanguard Group, Inc.	BUY	34.77	Ordinary	35,486	35,486
1-Nov-2018	The Vanguard Group, Inc.	BUY	34.68	Ordinary	10,340	10,340
1-Nov-2018	The Vanguard Group, Inc.	SELL	34.53	Ordinary	(61,341)	(61,341)
2-Nov-2018	The Vanguard Group, Inc.	BUY	34.28	Ordinary	17,912	17,912
2-Nov-2018	The Vanguard Group, Inc.	BUY	34.28	Ordinary	3,689	3,689
2-Nov-2018	The Vanguard Group, Inc.	SELL	34.18	Ordinary	(21,049)	(21,049)
5-Nov-2018	The Vanguard Group, Inc.	SELL	33.40	Ordinary	(7,039)	(7,039)
6-Nov-2018	The Vanguard Group, Inc.	BUY	33.84	Ordinary	10,077	10,077
7-Nov-2018	The Vanguard Group, Inc.	BUY	34.16	Ordinary	8,272	8,272
7-Nov-2018	The Vanguard Group, Inc.	BUY	34.21	Ordinary	1,045	1,045
9-Nov-2018	The Vanguard Group, Inc.	SELL	33.77	Ordinary	(1,828)	(1,828)
12-Nov-2018	The Vanguard Group, Inc.	SELL	33.59	Ordinary	(2,351)	(2,351)
12-Nov-2018	The Vanguard Group, Inc.	BUY	33.68	Ordinary	6,204	6,204
12-Nov-2018	The Vanguard Group, Inc.	BUY	33.68	Ordinary	15,576	15,576
13-Nov-2018	The Vanguard Group, Inc.	BUY	33.39	Ordinary	7,273	7,273
13-Nov-2018	The Vanguard Group, Inc.	BUY	33.68	Ordinary	1,853	1,853
13-Nov-2018	The Vanguard Group, Inc.	BUY	33.39	Ordinary	3,846	3,846
14-Nov-2018	The Vanguard Group, Inc.	BUY	32.27	Ordinary	8,272	8,272
14-Nov-2018	The Vanguard Group, Inc.	BUY	32.27	Ordinary	6,204	6,204
14-Nov-2018	The Vanguard Group, Inc.	BUY	32.27	Ordinary	5,841	5,841
15-Nov-2018	The Vanguard Group, Inc.	BUY	32.69	Ordinary	44,341	44,341
15-Nov-2018	The Vanguard Group, Inc.	BUY	33.45	Ordinary	4,016	4,016
15-Nov-2018	The Vanguard Group, Inc.	BUY	33.45	Ordinary	1,174	1,174
21-Nov-2018	The Vanguard Group, Inc.	BUY	31.70	Ordinary	8,272	8,272
27-Nov-2018	The Vanguard Group, Inc.	BUY	31.45	Ordinary	1,584	1,584
28-Nov-2018	The Vanguard Group, Inc.	SELL	31.68	Ordinary	(4,533)	(4,533)

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Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
28-Nov-2018	The Vanguard Group, Inc.	BUY	31.97	Ordinary	898	898
28-Nov-2018	The Vanguard Group, Inc.	BUY	31.97	Ordinary	5,388	5,388
28-Nov-2018	The Vanguard Group, Inc.	BUY	31.97	Ordinary	5,170	5,170
28-Nov-2018	The Vanguard Group, Inc.	BUY	31.97	Ordinary	1,947	1,947
28-Nov-2018	The Vanguard Group, Inc.	BUY	31.97	Ordinary	3,245	3,245
28-Nov-2018	The Vanguard Group, Inc.	BUY	31.97	Ordinary	6,490	6,490
28-Nov-2018	The Vanguard Group, Inc.	BUY	31.97	Ordinary	4,683	4,683
29-Nov-2018	The Vanguard Group, Inc.	BUY	31.19	Ordinary	11,033	11,033
29-Nov-2018	The Vanguard Group, Inc.	BUY	31.55	Ordinary	325	325
30-Nov-2018	The Vanguard Group, Inc.	SELL	31.10	Ordinary	(25,955)	(25,955)
3-Dec-2018	The Vanguard Group, Inc.	SELL	32.16	Ordinary	(6,032)	(6,032)
4-Dec-2018	The Vanguard Group, Inc.	BUY	31.15	Ordinary	4,016	4,016
4-Dec-2018	The Vanguard Group, Inc.	BUY	31.15	Ordinary	8,272	8,272
4-Dec-2018	The Vanguard Group, Inc.	BUY	31.74	Ordinary	9,460	9,460
5-Dec-2018	The Vanguard Group, Inc.	BUY	31.27	Ordinary	1,132	1,132
5-Dec-2018	The Vanguard Group, Inc.	BUY	31.27	Ordinary	48,218	48,218
5-Dec-2018	The Vanguard Group, Inc.	BUY	31.27	Ordinary	423	423
5-Dec-2018	The Vanguard Group, Inc.	BUY	31.27	Ordinary	17,864	17,864
5-Dec-2018	The Vanguard Group, Inc.	BUY	31.58	Ordinary	4,674	4,674
6-Dec-2018	The Vanguard Group, Inc.	BUY	31.75	Ordinary	3,012	3,012
6-Dec-2018	The Vanguard Group, Inc.	BUY	31.55	Ordinary	6,309	6,309
6-Dec-2018	The Vanguard Group, Inc.	SELL	31.55	Ordinary	(649)	(649)
7-Dec-2018	The Vanguard Group, Inc.	BUY	30.62	Ordinary	8,272	8,272
7-Dec-2018	The Vanguard Group, Inc.	BUY	30.62	Ordinary	7,238	7,238
10-Dec-2018	The Vanguard Group, Inc.	BUY	30.85	Ordinary	15,593	15,593
10-Dec-2018	The Vanguard Group, Inc.	BUY	31.10	Ordinary	5,011	5,011
11-Dec-2018	The Vanguard Group, Inc.	BUY	30.99	Ordinary	31,338	31,338
11-Dec-2018	The Vanguard Group, Inc.	BUY	30.72	Ordinary	8,272	8,272
11-Dec-2018	The Vanguard Group, Inc.	BUY	30.72	Ordinary	6,204	6,204
12-Dec-2018	The Vanguard Group, Inc.	BUY	31.45	Ordinary	6,204	6,204
12-Dec-2018	The Vanguard Group, Inc.	BUY	31.45	Ordinary	6,204	6,204
12-Dec-2018	The Vanguard Group, Inc.	BUY	31.45	Ordinary	17,578	17,578
12-Dec-2018	The Vanguard Group, Inc.	SELL	31.15	Ordinary	(389)	(389)
12-Dec-2018	The Vanguard Group, Inc.	BUY	31.45	Ordinary	2,676	2,676
13-Dec-2018	The Vanguard Group, Inc.	BUY	31.53	Ordinary	4,683	4,683
13-Dec-2018	The Vanguard Group, Inc.	BUY	31.53	Ordinary	1,174	1,174
13-Dec-2018	The Vanguard Group, Inc.	BUY	31.50	Ordinary	405	405
13-Dec-2018	The Vanguard Group, Inc.	BUY	31.50	Ordinary	102	102
14-Dec-2018	The Vanguard Group, Inc.	BUY	30.92	Ordinary	6,204	6,204
14-Dec-2018	The Vanguard Group, Inc.	BUY	30.92	Ordinary	3,894	3,894
14-Dec-2018	The Vanguard Group, Inc.	BUY	30.92	Ordinary	2,007	2,007
14-Dec-2018	The Vanguard Group, Inc.	SELL	31.16	Ordinary	(680)	(680)
17-Dec-2018	The Vanguard Group, Inc.	SELL	31.14	Ordinary	(5,944)	(5,944)
17-Dec-2018	The Vanguard Group, Inc.	BUY	30.82	Ordinary	12,408	12,408
17-Dec-2018	The Vanguard Group, Inc.	BUY	30.82	Ordinary	6,690	6,690
18-Dec-2018	The Vanguard Group, Inc.	BUY	30.75	Ordinary	302	302
18-Dec-2018	The Vanguard Group, Inc.	BUY	30.82	Ordinary	1,434	1,434
20-Dec-2018	The Vanguard Group, Inc.	SELL	29.69	Ordinary	(34,133)	(34,133)
20-Dec-2018	The Vanguard Group, Inc.	BUY	29.41	Ordinary	8,272	8,272
20-Dec-2018	The Vanguard Group, Inc.	BUY	29.69	Ordinary	7,226	7,226
21-Dec-2018	The Vanguard Group, Inc.	SELL	29.92	Ordinary	(7,597)	(7,597)
21-Dec-2018	The Vanguard Group, Inc.	SELL	29.92	Ordinary	(13,299)	(13,299)
21-Dec-2018	The Vanguard Group, Inc.	SELL	29.92	Ordinary	(78,813)	(78,813)
21-Dec-2018	The Vanguard Group, Inc.	SELL	29.92	Ordinary	(570)	(570)
21-Dec-2018	The Vanguard Group, Inc.	SELL	29.92	Ordinary	(14,157)	(14,157)
24-Dec-2018	The Vanguard Group, Inc.	BUY	29.33	Ordinary	11,072	11,072
24-Dec-2018	The Vanguard Group, Inc.	BUY	29.33	Ordinary	6,920	6,920
26-Dec-2018	The Vanguard Group, Inc.	BUY	30.30	Ordinary	12,675	12,675
26-Dec-2018	The Vanguard Group, Inc.	BUY	30.30	Ordinary	4,152	4,152
27-Dec-2018	The Vanguard Group, Inc.	BUY	31.37	Ordinary	1,525	1,525
27-Dec-2018	The Vanguard Group, Inc.	BUY	31.37	Ordinary	3,460	3,460
27-Dec-2018	The Vanguard Group, Inc.	BUY	31.37	Ordinary	10,380	10,380
27-Dec-2018	The Vanguard Group, Inc.	BUY	31.37	Ordinary	2,076	2,076
28-Dec-2018	The Vanguard Group, Inc.	BUY	31.18	Ordinary	4,875	4,875
28-Dec-2018	The Vanguard Group, Inc.	BUY	30.98	Ordinary	11,005	11,005
28-Dec-2018	The Vanguard Group, Inc.	BUY	31.35	Ordinary	3,104	3,104
28-Dec-2018	The Vanguard Group, Inc.	BUY	30.98	Ordinary	9,810	9,810
31-Dec-2018	The Vanguard Group, Inc.	BUY	31.27	Ordinary	7,320	7,320
2-Jan-2019	The Vanguard Group, Inc.	BUY	30.96	Ordinary	5,490	5,490

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2-Jan-2019	The Vanguard Group, Inc.	BUY	30.96	Ordinary	2,135	2,135
2-Jan-2019	The Vanguard Group, Inc.	BUY	30.96	Ordinary	6,825	6,825
2-Jan-2019	The Vanguard Group, Inc.	BUY	30.96	Ordinary	12,675	12,675
2-Jan-2019	The Vanguard Group, Inc.	BUY	31.36	Ordinary	1,101	1,101
2-Jan-2019	The Vanguard Group, Inc.	BUY	30.96	Ordinary	4,844	4,844
2-Jan-2019	The Vanguard Group, Inc.	BUY	30.96	Ordinary	4,152	4,152
2-Jan-2019	The Vanguard Group, Inc.	BUY	30.96	Ordinary	1,186	1,186
2-Jan-2019	The Vanguard Group, Inc.	BUY	30.49	Ordinary	6,035	6,035
3-Jan-2019	The Vanguard Group, Inc.	BUY	31.46	Ordinary	77,675	77,675
3-Jan-2019	The Vanguard Group, Inc.	BUY	31.46	Ordinary	13,122	13,122
3-Jan-2019	The Vanguard Group, Inc.	BUY	31.28	Ordinary	3,460	3,460
3-Jan-2019	The Vanguard Group, Inc.	BUY	31.28	Ordinary	1,186	1,186
3-Jan-2019	The Vanguard Group, Inc.	BUY	31.46	Ordinary	1,819	1,819
4-Jan-2019	The Vanguard Group, Inc.	BUY	31.74	Ordinary	42,616	42,616
4-Jan-2019	The Vanguard Group, Inc.	BUY	31.74	Ordinary	20,082	20,082
4-Jan-2019	The Vanguard Group, Inc.	BUY	31.91	Ordinary	799	799
7-Jan-2019	The Vanguard Group, Inc.	BUY	32.51	Ordinary	1,384	1,384
8-Jan-2019	The Vanguard Group, Inc.	SELL	32.39	Ordinary	(20,146)	(20,146)
8-Jan-2019	The Vanguard Group, Inc.	SELL	32.42	Ordinary	(469)	(469)
8-Jan-2019	The Vanguard Group, Inc.	BUY	32.42	Ordinary	1,070	1,070
9-Jan-2019	The Vanguard Group, Inc.	SELL	33.10	Ordinary	(10,370)	(10,370)
9-Jan-2019	The Vanguard Group, Inc.	BUY	33.22	Ordinary	6,825	6,825
10-Jan-2019	The Vanguard Group, Inc.	SELL	33.33	Ordinary	(9,781)	(9,781)
10-Jan-2019	The Vanguard Group, Inc.	BUY	33.61	Ordinary	4,880	4,880
10-Jan-2019	The Vanguard Group, Inc.	BUY	33.61	Ordinary	2,372	2,372
10-Jan-2019	The Vanguard Group, Inc.	BUY	33.37	Ordinary	4,822	4,822
11-Jan-2019	The Vanguard Group, Inc.	BUY	33.35	Ordinary	1,830	1,830
11-Jan-2019	The Vanguard Group, Inc.	BUY	33.35	Ordinary	11,700	11,700
14-Jan-2019	The Vanguard Group, Inc.	BUY	33.17	Ordinary	6,825	6,825
14-Jan-2019	The Vanguard Group, Inc.	BUY	33.08	Ordinary	113	113
15-Jan-2019	The Vanguard Group, Inc.	SELL	33.46	Ordinary	(6,037)	(6,037)
15-Jan-2019	The Vanguard Group, Inc.	BUY	33.18	Ordinary	8,736	8,736
16-Jan-2019	The Vanguard Group, Inc.	BUY	33.52	Ordinary	1,317	1,317
16-Jan-2019	The Vanguard Group, Inc.	BUY	33.57	Ordinary	9,936	9,936
17-Jan-2019	The Vanguard Group, Inc.	BUY	33.76	Ordinary	12,110	12,110
17-Jan-2019	The Vanguard Group, Inc.	SELL	34.03	Ordinary	(6,270)	(6,270)
17-Jan-2019	The Vanguard Group, Inc.	BUY	33.74	Ordinary	634	634
17-Jan-2019	The Vanguard Group, Inc.	SELL	33.74	Ordinary	(7,346)	(7,346)
17-Jan-2019	The Vanguard Group, Inc.	BUY	33.76	Ordinary	1,561	1,561
18-Jan-2019	The Vanguard Group, Inc.	SELL	33.75	Ordinary	(396)	(396)
18-Jan-2019	The Vanguard Group, Inc.	SELL	33.89	Ordinary	(2,272)	(2,272)
22-Jan-2019	The Vanguard Group, Inc.	SELL	33.44	Ordinary	(6,270)	(6,270)
22-Jan-2019	The Vanguard Group, Inc.	BUY	33.66	Ordinary	1,092	1,092
22-Jan-2019	The Vanguard Group, Inc.	BUY	33.66	Ordinary	131	131
23-Jan-2019	The Vanguard Group, Inc.	BUY	33.43	Ordinary	25,822	25,822
23-Jan-2019	The Vanguard Group, Inc.	SELL	33.08	Ordinary	(13,585)	(13,585)
23-Jan-2019	The Vanguard Group, Inc.	BUY	33.21	Ordinary	1,105	1,105
24-Jan-2019	The Vanguard Group, Inc.	SELL	33.94	Ordinary	(13,585)	(13,585)
24-Jan-2019	The Vanguard Group, Inc.	BUY	33.85	Ordinary	13,639	13,639
28-Jan-2019	The Vanguard Group, Inc.	SELL	34.18	Ordinary	(4,152)	(4,152)
29-Jan-2019	The Vanguard Group, Inc.	SELL	33.93	Ordinary	(8,360)	(8,360)
29-Jan-2019	The Vanguard Group, Inc.	SELL	33.93	Ordinary	(8,360)	(8,360)
29-Jan-2019	The Vanguard Group, Inc.	SELL	33.93	Ordinary	(19,855)	(19,855)
29-Jan-2019	The Vanguard Group, Inc.	SELL	33.93	Ordinary	(5,850)	(5,850)
29-Jan-2019	The Vanguard Group, Inc.	SELL	34.01	Ordinary	(338)	(338)
29-Jan-2019	The Vanguard Group, Inc.	SELL	33.93	Ordinary	(2,768)	(2,768)
30-Jan-2019	The Vanguard Group, Inc.	SELL	34.30	Ordinary	(5,160)	(5,160)
30-Jan-2019	The Vanguard Group, Inc.	BUY	34.30	Ordinary	4,440	4,440
30-Jan-2019	The Vanguard Group, Inc.	BUY	34.54	Ordinary	2,135	2,135
30-Jan-2019	The Vanguard Group, Inc.	SELL	34.12	Ordinary	(10,653)	(10,653)
30-Jan-2019	The Vanguard Group, Inc.	SELL	34.54	Ordinary	(4,152)	(4,152)
30-Jan-2019	The Vanguard Group, Inc.	BUY	34.30	Ordinary	25,835	25,835
31-Jan-2019	The Vanguard Group, Inc.	BUY	34.67	Ordinary	8,369	8,369
31-Jan-2019	The Vanguard Group, Inc.	SELL	34.41	Ordinary	(4,875)	(4,875)
31-Jan-2019	The Vanguard Group, Inc.	SELL	34.41	Ordinary	(11,764)	(11,764)
31-Jan-2019	The Vanguard Group, Inc.	BUY	34.32	Ordinary	479	479
1-Feb-2019	The Vanguard Group, Inc.	BUY	34.25	Ordinary	195	195
4-Feb-2019	The Vanguard Group, Inc.	SELL	34.27	Ordinary	(6,825)	(6,825)
4-Feb-2019	The Vanguard Group, Inc.	SELL	34.27	Ordinary	(7,800)	(7,800)

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5-Feb-2019	The Vanguard Group, Inc.	BUY	34.56	Ordinary	3,355	3,355
5-Feb-2019	The Vanguard Group, Inc.	SELL	34.56	Ordinary	(6,825)	(6,825)
7-Feb-2019	The Vanguard Group, Inc.	SELL	34.47	Ordinary	(7,128)	(7,128)
7-Feb-2019	The Vanguard Group, Inc.	BUY	34.47	Ordinary	6,100	6,100
7-Feb-2019	The Vanguard Group, Inc.	SELL	34.47	Ordinary	(7,800)	(7,800)
7-Feb-2019	The Vanguard Group, Inc.	SELL	34.47	Ordinary	(2,768)	(2,768)
7-Feb-2019	The Vanguard Group, Inc.	SELL	34.47	Ordinary	(2,768)	(2,768)
7-Feb-2019	The Vanguard Group, Inc.	SELL	34.86	Ordinary	(1,518)	(1,518)
8-Feb-2019	The Vanguard Group, Inc.	BUY	34.22	Ordinary	13,808	13,808
8-Feb-2019	The Vanguard Group, Inc.	SELL	34.17	Ordinary	(8,996)	(8,996)
8-Feb-2019	The Vanguard Group, Inc.	BUY	34.14	Ordinary	11,810	11,810
11-Feb-2019	The Vanguard Group, Inc.	SELL	34.54	Ordinary	(6,228)	(6,228)
11-Feb-2019	The Vanguard Group, Inc.	BUY	34.40	Ordinary	18,680	18,680
12-Feb-2019	The Vanguard Group, Inc.	SELL	34.60	Ordinary	(48,672)	(48,672)
13-Feb-2019	The Vanguard Group, Inc.	SELL	34.89	Ordinary	(4,152)	(4,152)
15-Feb-2019	The Vanguard Group, Inc.	SELL	36.26	Ordinary	(1,950)	(1,950)
15-Feb-2019	The Vanguard Group, Inc.	SELL	35.91	Ordinary	(287)	(287)
18-Feb-2019	The Vanguard Group, Inc.	BUY	36.89	Ordinary	3,314	3,314
18-Feb-2019	The Vanguard Group, Inc.	BUY	36.61	Ordinary	489	489
20-Feb-2019	The Vanguard Group, Inc.	SELL	37.30	Ordinary	(3,787)	(3,787)
20-Feb-2019	The Vanguard Group, Inc.	BUY	37.45	Ordinary	10,939	10,939
20-Feb-2019	The Vanguard Group, Inc.	BUY	37.30	Ordinary	16,019	16,019
20-Feb-2019	The Vanguard Group, Inc.	BUY	37.30	Ordinary	900	900
20-Feb-2019	The Vanguard Group, Inc.	SELL	37.45	Ordinary	(690)	(690)
21-Feb-2019	The Vanguard Group, Inc.	BUY	37.22	Ordinary	33,528	33,528
21-Feb-2019	The Vanguard Group, Inc.	SELL	36.86	Ordinary	(6,825)	(6,825)
21-Feb-2019	The Vanguard Group, Inc.	SELL	36.86	Ordinary	(3,460)	(3,460)
22-Feb-2019	The Vanguard Group, Inc.	BUY	35.57	Ordinary	10,637	10,637
22-Feb-2019	The Vanguard Group, Inc.	SELL	35.56	Ordinary	(28,275)	(28,275)
22-Feb-2019	The Vanguard Group, Inc.	BUY	35.57	Ordinary	2,133	2,133
26-Feb-2019	The Vanguard Group, Inc.	BUY	35.64	Ordinary	5,225	5,225
26-Feb-2019	The Vanguard Group, Inc.	BUY	35.70	Ordinary	339	339
27-Feb-2019	The Vanguard Group, Inc.	BUY	36.09	Ordinary	1,186	1,186
27-Feb-2019	The Vanguard Group, Inc.	BUY	36.06	Ordinary	517	517
28-Feb-2019	The Vanguard Group, Inc.	SELL	36.25	Ordinary	(16,741)	(16,741)
28-Feb-2019	The Vanguard Group, Inc.	BUY	36.25	Ordinary	8,016	8,016
28-Feb-2019	The Vanguard Group, Inc.	SELL	36.44	Ordinary	(3,902)	(3,902)
28-Feb-2019	The Vanguard Group, Inc.	SELL	36.25	Ordinary	(1,320)	(1,320)
1-Mar-2019	The Vanguard Group, Inc.	SELL	35.66	Ordinary	(17,946)	(17,946)
1-Mar-2019	The Vanguard Group, Inc.	SELL	35.66	Ordinary	(2,328)	(2,328)
1-Mar-2019	The Vanguard Group, Inc.	BUY	35.66	Ordinary	570	570
4-Mar-2019	The Vanguard Group, Inc.	SELL	35.58	Ordinary	(17,248)	(17,248)
4-Mar-2019	The Vanguard Group, Inc.	BUY	35.58	Ordinary	15,795	15,795
4-Mar-2019	The Vanguard Group, Inc.	SELL	35.58	Ordinary	(2,151)	(2,151)
4-Mar-2019	The Vanguard Group, Inc.	BUY	35.58	Ordinary	2,277	2,277
5-Mar-2019	The Vanguard Group, Inc.	BUY	35.67	Ordinary	56,676	56,676
5-Mar-2019	The Vanguard Group, Inc.	BUY	35.74	Ordinary	3,101	3,101
5-Mar-2019	The Vanguard Group, Inc.	BUY	35.67	Ordinary	6,270	6,270
5-Mar-2019	The Vanguard Group, Inc.	SELL	35.70	Ordinary	(4,542)	(4,542)
6-Mar-2019	The Vanguard Group, Inc.	BUY	35.51	Ordinary	6,825	6,825
8-Mar-2019	The Vanguard Group, Inc.	BUY	35.35	Ordinary	5,225	5,225
8-Mar-2019	The Vanguard Group, Inc.	BUY	35.40	Ordinary	472	472
8-Mar-2019	The Vanguard Group, Inc.	BUY	35.31	Ordinary	467	467
11-Mar-2019	The Vanguard Group, Inc.	BUY	34.66	Ordinary	517	517
11-Mar-2019	The Vanguard Group, Inc.	SELL	34.78	Ordinary	(8,638)	(8,638)
12-Mar-2019	The Vanguard Group, Inc.	BUY	35.11	Ordinary	70,985	70,985
12-Mar-2019	The Vanguard Group, Inc.	BUY	35.09	Ordinary	8,437	8,437
12-Mar-2019	The Vanguard Group, Inc.	SELL	34.96	Ordinary	(3,308)	(3,308)
14-Mar-2019	The Vanguard Group, Inc.	SELL	34.99	Ordinary	(8,547)	(8,547)
14-Mar-2019	The Vanguard Group, Inc.	BUY	34.99	Ordinary	370	370
15-Mar-2019	The Vanguard Group, Inc.	BUY	35.31	Ordinary	1,909	1,909
15-Mar-2019	The Vanguard Group, Inc.	BUY	35.29	Ordinary	79	79
15-Mar-2019	The Vanguard Group, Inc.	SELL	35.29	Ordinary	(1,778)	(1,778)
15-Mar-2019	The Vanguard Group, Inc.	SELL	35.29	Ordinary	(1,822)	(1,822)
15-Mar-2019	The Vanguard Group, Inc.	SELL	35.29	Ordinary	(661)	(661)
18-Mar-2019	The Vanguard Group, Inc.	BUY	35.33	Ordinary	3,836	3,836
19-Mar-2019	The Vanguard Group, Inc.	BUY	35.45	Ordinary	6,604	6,604
19-Mar-2019	The Vanguard Group, Inc.	BUY	35.45	Ordinary	252	252
20-Mar-2019	The Vanguard Group, Inc.	BUY	35.48	Ordinary	20,154	20,154

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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-Mar-2019	The Vanguard Group, Inc.	BUY	35.45	Ordinary	3,135	3,135
21-Mar-2019	The Vanguard Group, Inc.	BUY	35.57	Ordinary	472	472
22-Mar-2019	The Vanguard Group, Inc.	BUY	35.83	Ordinary	3,331	3,331
22-Mar-2019	The Vanguard Group, Inc.	BUY	35.83	Ordinary	33,082	33,082
22-Mar-2019	The Vanguard Group, Inc.	BUY	35.83	Ordinary	7,796	7,796
27-Mar-2019	The Vanguard Group, Inc.	BUY	34.23	Ordinary	57,389	57,389
27-Mar-2019	The Vanguard Group, Inc.	SELL	34.29	Ordinary	(525)	(525)
27-Mar-2019	The Vanguard Group, Inc.	BUY	34.21	Ordinary	1,192	1,192
27-Mar-2019	The Vanguard Group, Inc.	SELL	34.38	Ordinary	(338)	(338)
27-Mar-2019	The Vanguard Group, Inc.	SELL	34.29	Ordinary	(15,820)	(15,820)
28-Mar-2019	The Vanguard Group, Inc.	SELL	34.84	Ordinary	(2,762)	(2,762)
29-Mar-2019	The Vanguard Group, Inc.	SELL	34.58	Ordinary	(4,875)	(4,875)
29-Mar-2019	The Vanguard Group, Inc.	BUY	34.62	Ordinary	517	517
29-Mar-2019	The Vanguard Group, Inc.	SELL	34.62	Ordinary	(12,644)	(12,644)
1-Apr-2019	The Vanguard Group, Inc.	BUY	34.89	Ordinary	4,180	4,180
1-Apr-2019	The Vanguard Group, Inc.	BUY	34.89	Ordinary	1,192	1,192
1-Apr-2019	The Vanguard Group, Inc.	BUY	34.78	Ordinary	1,137	1,137
2-Apr-2019	The Vanguard Group, Inc.	BUY	35.04	Ordinary	35,775	35,775
2-Apr-2019	The Vanguard Group, Inc.	BUY	35.04	Ordinary	553	553
4-Apr-2019	The Vanguard Group, Inc.	BUY	34.13	Ordinary	1,838	1,838
4-Apr-2019	The Vanguard Group, Inc.	SELL	34.13	Ordinary	(7,150)	(7,150)
5-Apr-2019	The Vanguard Group, Inc.	BUY	34.27	Ordinary	5,480	5,480
5-Apr-2019	The Vanguard Group, Inc.	BUY	34.27	Ordinary	1,192	1,192
8-Apr-2019	The Vanguard Group, Inc.	SELL	34.57	Ordinary	(11,700)	(11,700)
8-Apr-2019	The Vanguard Group, Inc.	BUY	34.57	Ordinary	1,192	1,192
9-Apr-2019	The Vanguard Group, Inc.	SELL	35.50	Ordinary	(5,555)	(5,555)
10-Apr-2019	The Vanguard Group, Inc.	BUY	35.18	Ordinary	46,709	46,709
10-Apr-2019	The Vanguard Group, Inc.	BUY	35.15	Ordinary	22,485	22,485
12-Apr-2019	The Vanguard Group, Inc.	BUY	35.65	Ordinary	13,915	13,915
15-Apr-2019	The Vanguard Group, Inc.	SELL	35.82	Ordinary	(6,825)	(6,825)
16-Apr-2019	The Vanguard Group, Inc.	BUY	35.58	Ordinary	29,385	29,385
16-Apr-2019	The Vanguard Group, Inc.	BUY	35.53	Ordinary	517	517
17-Apr-2019	The Vanguard Group, Inc.	BUY	35.43	Ordinary	31,685	31,685
18-Apr-2019	The Vanguard Group, Inc.	SELL	35.66	Ordinary	(386,263)	(386,263)
18-Apr-2019	The Vanguard Group, Inc.	BUY	35.66	Ordinary	386,263	386,263
18-Apr-2019	The Vanguard Group, Inc.	BUY	35.65	Ordinary	11,718	11,718
23-Apr-2019	The Vanguard Group, Inc.	BUY	36.68	Ordinary	4,932	4,932
23-Apr-2019	The Vanguard Group, Inc.	SELL	36.68	Ordinary	(3,900)	(3,900)
23-Apr-2019	The Vanguard Group, Inc.	SELL	36.56	Ordinary	(5,231)	(5,231)
24-Apr-2019	The Vanguard Group, Inc.	SELL	36.75	Ordinary	(9,377)	(9,377)
24-Apr-2019	The Vanguard Group, Inc.	BUY	36.75	Ordinary	778	778
25-Apr-2019	The Vanguard Group, Inc.	SELL	36.53	Ordinary	(4,875)	(4,875)
26-Apr-2019	The Vanguard Group, Inc.	BUY	36.29	Ordinary	5,225	5,225
26-Apr-2019	The Vanguard Group, Inc.	SELL	36.29	Ordinary	(4,875)	(4,875)
26-Apr-2019	The Vanguard Group, Inc.	SELL	36.50	Ordinary	(372)	(372)
26-Apr-2019	The Vanguard Group, Inc.	BUY	36.50	Ordinary	1,751	1,751
2-May-2019	The Vanguard Group, Inc.	BUY	35.27	Ordinary	61,088	61,088
3-May-2019	The Vanguard Group, Inc.	BUY	35.01	Ordinary	4,665	4,665
3-May-2019	The Vanguard Group, Inc.	BUY	34.93	Ordinary	57,999	57,999
3-May-2019	The Vanguard Group, Inc.	BUY	34.93	Ordinary	1,170	1,170
3-May-2019	The Vanguard Group, Inc.	BUY	34.93	Ordinary	1,838	1,838
6-May-2019	The Vanguard Group, Inc.	SELL	34.96	Ordinary	(5,346)	(5,346)
7-May-2019	The Vanguard Group, Inc.	BUY	34.93	Ordinary	27,078	27,078
7-May-2019	The Vanguard Group, Inc.	BUY	34.78	Ordinary	2,740	2,740
7-May-2019	The Vanguard Group, Inc.	BUY	34.93	Ordinary	23,283	23,283
7-May-2019	The Vanguard Group, Inc.	BUY	34.91	Ordinary	1,838	1,838
8-May-2019	The Vanguard Group, Inc.	SELL	34.78	Ordinary	(5,346)	(5,346)
8-May-2019	The Vanguard Group, Inc.	BUY	34.78	Ordinary	40,091	40,091
8-May-2019	The Vanguard Group, Inc.	BUY	34.84	Ordinary	4,334	4,334
8-May-2019	The Vanguard Group, Inc.	BUY	34.84	Ordinary	472	472
8-May-2019	The Vanguard Group, Inc.	BUY	34.78	Ordinary	18,921	18,921
9-May-2019	The Vanguard Group, Inc.	BUY	35.42	Ordinary	6,270	6,270
9-May-2019	The Vanguard Group, Inc.	BUY	35.42	Ordinary	1,188	1,188
10-May-2019	The Vanguard Group, Inc.	BUY	35.74	Ordinary	22,590	22,590
10-May-2019	The Vanguard Group, Inc.	BUY	35.73	Ordinary	472	472
10-May-2019	The Vanguard Group, Inc.	SELL	35.73	Ordinary	(14,770)	(14,770)
10-May-2019	The Vanguard Group, Inc.	BUY	35.73	Ordinary	819	819
13-May-2019	The Vanguard Group, Inc.	BUY	35.68	Ordinary	6,418	6,418
14-May-2019	The Vanguard Group, Inc.	SELL	35.80	Ordinary	(5,346)	(5,346)

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Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
14-May-2019	The Vanguard Group, Inc.	BUY	35.80	Ordinary	2,768	2,768
14-May-2019	The Vanguard Group, Inc.	BUY	35.80	Ordinary	594	594
14-May-2019	The Vanguard Group, Inc.	BUY	35.54	Ordinary	517	517
15-May-2019	The Vanguard Group, Inc.	BUY	36.05	Ordinary	67,098	67,098
15-May-2019	The Vanguard Group, Inc.	BUY	36.21	Ordinary	12,346	12,346
16-May-2019	The Vanguard Group, Inc.	BUY	36.36	Ordinary	7,467	7,467
16-May-2019	The Vanguard Group, Inc.	BUY	36.76	Ordinary	145,755	145,755
17-May-2019	The Vanguard Group, Inc.	BUY	37.14	Ordinary	39,156	39,156
17-May-2019	The Vanguard Group, Inc.	BUY	37.20	Ordinary	997	997
17-May-2019	The Vanguard Group, Inc.	BUY	37.14	Ordinary	380	380
20-May-2019	The Vanguard Group, Inc.	BUY	37.51	Ordinary	8,462	8,462
20-May-2019	The Vanguard Group, Inc.	BUY	36.89	Ordinary	2,740	2,740
21-May-2019	The Vanguard Group, Inc.	BUY	37.02	Ordinary	328	328
21-May-2019	The Vanguard Group, Inc.	BUY	37.02	Ordinary	4,422	4,422
22-May-2019	The Vanguard Group, Inc.	BUY	37.34	Ordinary	64,656	64,656
22-May-2019	The Vanguard Group, Inc.	BUY	37.40	Ordinary	4,446	4,446
23-May-2019	The Vanguard Group, Inc.	BUY	37.13	Ordinary	24,298	24,298
23-May-2019	The Vanguard Group, Inc.	BUY	36.99	Ordinary	3,146	3,146
24-May-2019	The Vanguard Group, Inc.	BUY	35.70	Ordinary	1,290	1,290
28-May-2019	The Vanguard Group, Inc.	SELL	36.02	Ordinary	(20,032)	(20,032)
28-May-2019	The Vanguard Group, Inc.	BUY	36.03	Ordinary	9,846	9,846
28-May-2019	The Vanguard Group, Inc.	BUY	35.75	Ordinary	5,225	5,225
28-May-2019	The Vanguard Group, Inc.	BUY	36.03	Ordinary	4,040	4,040
29-May-2019	The Vanguard Group, Inc.	BUY	35.95	Ordinary	671	671
29-May-2019	The Vanguard Group, Inc.	SELL	36.07	Ordinary	(9,750)	(9,750)
29-May-2019	The Vanguard Group, Inc.	SELL	36.06	Ordinary	(723)	(723)
29-May-2019	The Vanguard Group, Inc.	BUY	36.06	Ordinary	1,048	1,048
30-May-2019	The Vanguard Group, Inc.	BUY	36.06	Ordinary	22,304	22,304
30-May-2019	The Vanguard Group, Inc.	SELL	35.94	Ordinary	(50,766)	(50,766)
30-May-2019	The Vanguard Group, Inc.	BUY	35.79	Ordinary	472	472
31-May-2019	The Vanguard Group, Inc.	BUY	35.24	Ordinary	20,809	20,809
31-May-2019	The Vanguard Group, Inc.	SELL	35.42	Ordinary	(25,836)	(25,836)
3-Jun-2019	The Vanguard Group, Inc.	BUY	34.67	Ordinary	2,740	2,740
3-Jun-2019	The Vanguard Group, Inc.	BUY	34.50	Ordinary	5,012	5,012
4-Jun-2019	The Vanguard Group, Inc.	SELL	34.49	Ordinary	(4,875)	(4,875)
4-Jun-2019	The Vanguard Group, Inc.	BUY	34.26	Ordinary	8,828	8,828
4-Jun-2019	The Vanguard Group, Inc.	BUY	34.26	Ordinary	12,500	12,500
5-Jun-2019	The Vanguard Group, Inc.	SELL	34.26	Ordinary	(7,128)	(7,128)
5-Jun-2019	The Vanguard Group, Inc.	SELL	34.26	Ordinary	(3,564)	(3,564)
5-Jun-2019	The Vanguard Group, Inc.	BUY	34.47	Ordinary	29,759	29,759
5-Jun-2019	The Vanguard Group, Inc.	SELL	34.51	Ordinary	(287)	(287)
5-Jun-2019	The Vanguard Group, Inc.	SELL	34.20	Ordinary	(1,838)	(1,838)
6-Jun-2019	The Vanguard Group, Inc.	BUY	34.16	Ordinary	8,336	8,336
6-Jun-2019	The Vanguard Group, Inc.	BUY	34.23	Ordinary	1,188	1,188
6-Jun-2019	The Vanguard Group, Inc.	BUY	34.06	Ordinary	517	517
6-Jun-2019	The Vanguard Group, Inc.	SELL	34.06	Ordinary	(30,857)	(30,857)
7-Jun-2019	The Vanguard Group, Inc.	BUY	34.81	Ordinary	1,188	1,188
7-Jun-2019	The Vanguard Group, Inc.	BUY	34.64	Ordinary	868	868
7-Jun-2019	The Vanguard Group, Inc.	BUY	34.64	Ordinary	250	250
10-Jun-2019	The Vanguard Group, Inc.	BUY	34.93	Ordinary	3,288	3,288
11-Jun-2019	The Vanguard Group, Inc.	SELL	35.01	Ordinary	(4,455)	(4,455)
11-Jun-2019	The Vanguard Group, Inc.	BUY	35.15	Ordinary	472	472
11-Jun-2019	The Vanguard Group, Inc.	BUY	35.15	Ordinary	597	597
11-Jun-2019	The Vanguard Group, Inc.	BUY	34.80	Ordinary	42	42
12-Jun-2019	The Vanguard Group, Inc.	BUY	35.02	Ordinary	3,288	3,288
12-Jun-2019	The Vanguard Group, Inc.	BUY	35.04	Ordinary	15,884	15,884
12-Jun-2019	The Vanguard Group, Inc.	BUY	35.04	Ordinary	687	687
13-Jun-2019	The Vanguard Group, Inc.	SELL	34.42	Ordinary	(22,993)	(22,993)
13-Jun-2019	The Vanguard Group, Inc.	BUY	34.50	Ordinary	1,096	1,096
14-Jun-2019	The Vanguard Group, Inc.	SELL	35.05	Ordinary	(25,220)	(25,220)
14-Jun-2019	The Vanguard Group, Inc.	SELL	35.03	Ordinary	(749)	(749)
14-Jun-2019	The Vanguard Group, Inc.	SELL	34.93	Ordinary	(2,673)	(2,673)
14-Jun-2019	The Vanguard Group, Inc.	SELL	35.03	Ordinary	(176)	(176)
17-Jun-2019	The Vanguard Group, Inc.	BUY	34.96	Ordinary	517	517
17-Jun-2019	The Vanguard Group, Inc.	SELL	34.96	Ordinary	(7,686)	(7,686)
18-Jun-2019	The Vanguard Group, Inc.	BUY	35.29	Ordinary	1,188	1,188
19-Jun-2019	The Vanguard Group, Inc.	BUY	35.82	Ordinary	16,162	16,162
19-Jun-2019	The Vanguard Group, Inc.	SELL	35.77	Ordinary	(14,373)	(14,373)
19-Jun-2019	The Vanguard Group, Inc.	BUY	35.82	Ordinary	1,247	1,247

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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-2019	The Vanguard Group, Inc.	BUY	36.37	Ordinary	2,740	2,740
21-Jun-2019	The Vanguard Group, Inc.	SELL	37.11	Ordinary	(19,666)	(19,666)
21-Jun-2019	The Vanguard Group, Inc.	SELL	37.11	Ordinary	(85,533)	(85,533)
21-Jun-2019	The Vanguard Group, Inc.	BUY	37.17	Ordinary	1,370	1,370
21-Jun-2019	The Vanguard Group, Inc.	BUY	37.11	Ordinary	14,296	14,296
21-Jun-2019	The Vanguard Group, Inc.	SELL	37.11	Ordinary	(92)	(92)
21-Jun-2019	The Vanguard Group, Inc.	SELL	37.11	Ordinary	(397)	(397)
21-Jun-2019	The Vanguard Group, Inc.	BUY	37.11	Ordinary	1,524	1,524
21-Jun-2019	The Vanguard Group, Inc.	SELL	37.11	Ordinary	(34)	(34)
21-Jun-2019	The Vanguard Group, Inc.	SELL	37.11	Ordinary	(8)	(8)
24-Jun-2019	The Vanguard Group, Inc.	BUY	36.97	Ordinary	5,384	5,384
25-Jun-2019	The Vanguard Group, Inc.	SELL	37.07	Ordinary	(20,622)	(20,622)
25-Jun-2019	The Vanguard Group, Inc.	SELL	36.82	Ordinary	(2,673)	(2,673)
25-Jun-2019	The Vanguard Group, Inc.	BUY	37.08	Ordinary	19,347	19,347
25-Jun-2019	The Vanguard Group, Inc.	BUY	36.82	Ordinary	2,466	2,466
25-Jun-2019	The Vanguard Group, Inc.	BUY	36.82	Ordinary	1,644	1,644
25-Jun-2019	The Vanguard Group, Inc.	BUY	36.97	Ordinary	2,074	2,074
26-Jun-2019	The Vanguard Group, Inc.	BUY	37.12	Ordinary	3,288	3,288
26-Jun-2019	The Vanguard Group, Inc.	BUY	37.12	Ordinary	1,918	1,918
26-Jun-2019	The Vanguard Group, Inc.	BUY	36.93	Ordinary	11,423	11,423
26-Jun-2019	The Vanguard Group, Inc.	SELL	36.87	Ordinary	(4,027)	(4,027)
26-Jun-2019	The Vanguard Group, Inc.	BUY	37.07	Ordinary	1,838	1,838
26-Jun-2019	The Vanguard Group, Inc.	BUY	37.07	Ordinary	2,130	2,130
27-Jun-2019	The Vanguard Group, Inc.	SELL	37.15	Ordinary	(741)	(741)
28-Jun-2019	The Vanguard Group, Inc.	BUY	36.36	Ordinary	11,493	11,493
28-Jun-2019	The Vanguard Group, Inc.	BUY	36.36	Ordinary	27,441	27,441
28-Jun-2019	The Vanguard Group, Inc.	SELL	36.36	Ordinary	(94)	(94)
1-Jul-2019	The Vanguard Group, Inc.	BUY	36.73	Ordinary	2,316	2,316
2-Jul-2019	The Vanguard Group, Inc.	BUY	36.66	Ordinary	2,466	2,466
2-Jul-2019	The Vanguard Group, Inc.	BUY	36.74	Ordinary	17,633	17,633
2-Jul-2019	The Vanguard Group, Inc.	SELL	36.74	Ordinary	(189)	(189)
3-Jul-2019	The Vanguard Group, Inc.	BUY	36.49	Ordinary	5,834	5,834
3-Jul-2019	The Vanguard Group, Inc.	BUY	36.49	Ordinary	8,378	8,378
4-Jul-2019	The Vanguard Group, Inc.	BUY	35.78	Ordinary	8,354	8,354
5-Jul-2019	The Vanguard Group, Inc.	BUY	36.09	Ordinary	4,180	4,180
5-Jul-2019	The Vanguard Group, Inc.	BUY	36.20	Ordinary	568	568
9-Jul-2019	The Vanguard Group, Inc.	BUY	36.23	Ordinary	2,740	2,740
9-Jul-2019	The Vanguard Group, Inc.	BUY	36.08	Ordinary	517	517
10-Jul-2019	The Vanguard Group, Inc.	BUY	36.30	Ordinary	17,693	17,693
10-Jul-2019	The Vanguard Group, Inc.	BUY	36.02	Ordinary	2,768	2,768
12-Jul-2019	The Vanguard Group, Inc.	SELL	35.83	Ordinary	(4,892)	(4,892)
12-Jul-2019	The Vanguard Group, Inc.	BUY	36.00	Ordinary	11,870	11,870
12-Jul-2019	The Vanguard Group, Inc.	BUY	36.00	Ordinary	50,047	50,047
12-Jul-2019	The Vanguard Group, Inc.	SELL	35.83	Ordinary	(14,230)	(14,230)
15-Jul-2019	The Vanguard Group, Inc.	BUY	35.73	Ordinary	6,270	6,270
17-Jul-2019	The Vanguard Group, Inc.	BUY	34.70	Ordinary	2,740	2,740
17-Jul-2019	The Vanguard Group, Inc.	BUY	34.70	Ordinary	1,370	1,370
17-Jul-2019	The Vanguard Group, Inc.	BUY	34.70	Ordinary	1,918	1,918
17-Jul-2019	The Vanguard Group, Inc.	SELL	34.95	Ordinary	(678)	(678)
19-Jul-2019	The Vanguard Group, Inc.	BUY	33.54	Ordinary	1,206	1,206
22-Jul-2019	The Vanguard Group, Inc.	BUY	33.71	Ordinary	2,740	2,740
22-Jul-2019	The Vanguard Group, Inc.	BUY	33.71	Ordinary	5,225	5,225
22-Jul-2019	The Vanguard Group, Inc.	BUY	33.71	Ordinary	5,225	5,225
22-Jul-2019	The Vanguard Group, Inc.	BUY	33.71	Ordinary	1,206	1,206
22-Jul-2019	The Vanguard Group, Inc.	SELL	33.65	Ordinary	(16,490)	(16,490)
23-Jul-2019	The Vanguard Group, Inc.	BUY	34.10	Ordinary	2,740	2,740
23-Jul-2019	The Vanguard Group, Inc.	BUY	33.95	Ordinary	472	472
25-Jul-2019	The Vanguard Group, Inc.	BUY	34.34	Ordinary	24,348	24,348
25-Jul-2019	The Vanguard Group, Inc.	BUY	34.13	Ordinary	2,019	2,019
26-Jul-2019	The Vanguard Group, Inc.	BUY	34.46	Ordinary	2,466	2,466
26-Jul-2019	The Vanguard Group, Inc.	BUY	34.46	Ordinary	3,365	3,365
26-Jul-2019	The Vanguard Group, Inc.	BUY	34.46	Ordinary	1,206	1,206
26-Jul-2019	The Vanguard Group, Inc.	SELL	34.34	Ordinary	(3,646)	(3,646)
26-Jul-2019	The Vanguard Group, Inc.	BUY	34.34	Ordinary	232	232
29-Jul-2019	The Vanguard Group, Inc.	SELL	34.58	Ordinary	(20,322)	(20,322)
30-Jul-2019	The Vanguard Group, Inc.	SELL	34.78	Ordinary	(3,564)	(3,564)
30-Jul-2019	The Vanguard Group, Inc.	SELL	34.75	Ordinary	(434)	(434)
30-Jul-2019	The Vanguard Group, Inc.	BUY	34.69	Ordinary	1,838	1,838
30-Jul-2019	The Vanguard Group, Inc.	BUY	34.67	Ordinary	12,101	12,101

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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
30-Jul-2019	The Vanguard Group, Inc.	BUY	34.67	Ordinary	1,351	1,351
31-Jul-2019	The Vanguard Group, Inc.	BUY	34.48	Ordinary	2,466	2,466
1-Aug-2019	The Vanguard Group, Inc.	BUY	34.70	Ordinary	49,299	49,299
1-Aug-2019	The Vanguard Group, Inc.	BUY	34.39	Ordinary	9,405	9,405
1-Aug-2019	The Vanguard Group, Inc.	SELL	34.60	Ordinary	(35,126)	(35,126)
1-Aug-2019	The Vanguard Group, Inc.	SELL	34.69	Ordinary	(1,494)	(1,494)
2-Aug-2019	The Vanguard Group, Inc.	BUY	34.00	Ordinary	35,434	35,434
2-Aug-2019	The Vanguard Group, Inc.	BUY	33.50	Ordinary	2,692	2,692
5-Aug-2019	The Vanguard Group, Inc.	BUY	33.85	Ordinary	5,225	5,225
5-Aug-2019	The Vanguard Group, Inc.	BUY	32.81	Ordinary	2,740	2,740
5-Aug-2019	The Vanguard Group, Inc.	SELL	32.81	Ordinary	(1,950)	(1,950)
5-Aug-2019	The Vanguard Group, Inc.	SELL	32.81	Ordinary	(4,875)	(4,875)
5-Aug-2019	The Vanguard Group, Inc.	BUY	32.81	Ordinary	3,365	3,365
5-Aug-2019	The Vanguard Group, Inc.	BUY	33.21	Ordinary	944	944
6-Aug-2019	The Vanguard Group, Inc.	BUY	32.12	Ordinary	30,260	30,260
6-Aug-2019	The Vanguard Group, Inc.	SELL	33.18	Ordinary	(7,800)	(7,800)
6-Aug-2019	The Vanguard Group, Inc.	SELL	33.18	Ordinary	(16,575)	(16,575)
6-Aug-2019	The Vanguard Group, Inc.	BUY	33.18	Ordinary	603	603
6-Aug-2019	The Vanguard Group, Inc.	BUY	32.75	Ordinary	12,744	12,744
7-Aug-2019	The Vanguard Group, Inc.	BUY	32.79	Ordinary	64,393	64,393
7-Aug-2019	The Vanguard Group, Inc.	SELL	32.90	Ordinary	(311)	(311)
7-Aug-2019	The Vanguard Group, Inc.	BUY	32.79	Ordinary	8,055	8,055
8-Aug-2019	The Vanguard Group, Inc.	BUY	33.18	Ordinary	16,662	16,662
8-Aug-2019	The Vanguard Group, Inc.	SELL	33.59	Ordinary	(4,455)	(4,455)
8-Aug-2019	The Vanguard Group, Inc.	BUY	32.42	Ordinary	5,219	5,219
8-Aug-2019	The Vanguard Group, Inc.	BUY	33.18	Ordinary	1,322	1,322
9-Aug-2019	The Vanguard Group, Inc.	BUY	33.25	Ordinary	3,464	3,464
9-Aug-2019	The Vanguard Group, Inc.	BUY	33.05	Ordinary	1,809	1,809
12-Aug-2019	The Vanguard Group, Inc.	BUY	32.92	Ordinary	4,384	4,384
12-Aug-2019	The Vanguard Group, Inc.	BUY	33.22	Ordinary	472	472
13-Aug-2019	The Vanguard Group, Inc.	SELL	33.43	Ordinary	(6,237)	(6,237)
13-Aug-2019	The Vanguard Group, Inc.	BUY	33.43	Ordinary	1,206	1,206
13-Aug-2019	The Vanguard Group, Inc.	BUY	33.04	Ordinary	633	633
14-Aug-2019	The Vanguard Group, Inc.	BUY	33.43	Ordinary	18,299	18,299
14-Aug-2019	The Vanguard Group, Inc.	BUY	33.48	Ordinary	23,512	23,512
14-Aug-2019	The Vanguard Group, Inc.	BUY	33.43	Ordinary	517	517
15-Aug-2019	The Vanguard Group, Inc.	BUY	31.18	Ordinary	4,171	4,171
15-Aug-2019	The Vanguard Group, Inc.	SELL	31.07	Ordinary	(5,346)	(5,346)
15-Aug-2019	The Vanguard Group, Inc.	BUY	32.55	Ordinary	32,454	32,454
16-Aug-2019	The Vanguard Group, Inc.	BUY	31.21	Ordinary	2,481	2,481
16-Aug-2019	The Vanguard Group, Inc.	BUY	31.11	Ordinary	36,828	36,828
16-Aug-2019	The Vanguard Group, Inc.	BUY	31.21	Ordinary	31,224	31,224
16-Aug-2019	The Vanguard Group, Inc.	SELL	31.12	Ordinary	(4,601)	(4,601)
16-Aug-2019	The Vanguard Group, Inc.	BUY	31.21	Ordinary	1,385	1,385
19-Aug-2019	The Vanguard Group, Inc.	BUY	31.73	Ordinary	9,983	9,983
19-Aug-2019	The Vanguard Group, Inc.	SELL	31.73	Ordinary	(680)	(680)
20-Aug-2019	The Vanguard Group, Inc.	SELL	32.09	Ordinary	(3,900)	(3,900)
22-Aug-2019	The Vanguard Group, Inc.	BUY	32.49	Ordinary	1,005	1,005
22-Aug-2019	The Vanguard Group, Inc.	BUY	32.30	Ordinary	5,480	5,480
22-Aug-2019	The Vanguard Group, Inc.	SELL	32.49	Ordinary	(7,590)	(7,590)
27-Aug-2019	The Vanguard Group, Inc.	BUY	30.97	Ordinary	6,152	6,152
27-Aug-2019	The Vanguard Group, Inc.	SELL	30.96	Ordinary	(3,664)	(3,664)
29-Aug-2019	The Vanguard Group, Inc.	BUY	31.62	Ordinary	12,895	12,895
2-Sep-2019	The Vanguard Group, Inc.	BUY	31.80	Ordinary	9,309	9,309
3-Sep-2019	The Vanguard Group, Inc.	SELL	31.52	Ordinary	(6,157)	(6,157)
3-Sep-2019	The Vanguard Group, Inc.	BUY	31.52	Ordinary	6,157	6,157
5-Sep-2019	The Vanguard Group, Inc.	BUY	31.68	Ordinary	44,017	44,017
6-Sep-2019	The Vanguard Group, Inc.	SELL	31.69	Ordinary	(472)	(472)
6-Sep-2019	The Vanguard Group, Inc.	BUY	31.85	Ordinary	503	503
6-Sep-2019	The Vanguard Group, Inc.	SELL	31.69	Ordinary	(2,359)	(2,359)
9-Sep-2019	The Vanguard Group, Inc.	BUY	31.79	Ordinary	3,562	3,562
11-Sep-2019	The Vanguard Group, Inc.	BUY	32.29	Ordinary	3,562	3,562
12-Sep-2019	The Vanguard Group, Inc.	BUY	31.54	Ordinary	2,740	2,740
13-Sep-2019	The Vanguard Group, Inc.	SELL	31.38	Ordinary	(656)	(656)
16-Sep-2019	The Vanguard Group, Inc.	BUY	32.77	Ordinary	2,673	2,673
16-Sep-2019	The Vanguard Group, Inc.	BUY	32.70	Ordinary	5,129	5,129
17-Sep-2019	The Vanguard Group, Inc.	BUY	33.36	Ordinary	472	472
18-Sep-2019	The Vanguard Group, Inc.	BUY	32.62	Ordinary	2,466	2,466
20-Sep-2019	The Vanguard Group, Inc.	SELL	32.31	Ordinary	(147,216)	(147,216)

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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-Sep-2019	The Vanguard Group, Inc.	BUY	32.29	Ordinary	16,525	16,525
20-Sep-2019	The Vanguard Group, Inc.	BUY	32.29	Ordinary	264	264
20-Sep-2019	The Vanguard Group, Inc.	SELL	32.31	Ordinary	(1,308)	(1,308)
20-Sep-2019	The Vanguard Group, Inc.	SELL	32.31	Ordinary	(972)	(972)
23-Sep-2019	The Vanguard Group, Inc.	BUY	32.60	Ordinary	2,740	2,740
24-Sep-2019	The Vanguard Group, Inc.	BUY	32.46	Ordinary	14,301	14,301
24-Sep-2019	The Vanguard Group, Inc.	SELL	32.46	Ordinary	(839)	(839)
25-Sep-2019	The Vanguard Group, Inc.	BUY	32.24	Ordinary	2,740	2,740
25-Sep-2019	The Vanguard Group, Inc.	BUY	32.10	Ordinary	1,323	1,323
25-Sep-2019	The Vanguard Group, Inc.	BUY	32.10	Ordinary	13,937	13,937
25-Sep-2019	The Vanguard Group, Inc.	BUY	32.20	Ordinary	1,309	1,309
27-Sep-2019	The Vanguard Group, Inc.	BUY	32.03	Ordinary	424	424
30-Sep-2019	The Vanguard Group, Inc.	BUY	32.37	Ordinary	1,206	1,206
30-Sep-2019	The Vanguard Group, Inc.	SELL	32.02	Ordinary	(13,459)	(13,459)
1-Oct-2019	The Vanguard Group, Inc.	BUY	32.20	Ordinary	1,813	1,813
2-Oct-2019	The Vanguard Group, Inc.	BUY	31.27	Ordinary	603	603
2-Oct-2019	The Vanguard Group, Inc.	BUY	31.90	Ordinary	2,586	2,586
4-Oct-2019	The Vanguard Group, Inc.	BUY	30.85	Ordinary	11,761	11,761
4-Oct-2019	The Vanguard Group, Inc.	BUY	30.85	Ordinary	337	337
7-Oct-2019	The Vanguard Group, Inc.	BUY	31.24	Ordinary	16,850	16,850
10-Oct-2019	The Vanguard Group, Inc.	BUY	31.01	Ordinary	2,740	2,740
10-Oct-2019	The Vanguard Group, Inc.	BUY	31.01	Ordinary	8,220	8,220
10-Oct-2019	The Vanguard Group, Inc.	SELL	31.01	Ordinary	(7,014)	(7,014)
15-Oct-2019	The Vanguard Group, Inc.	BUY	31.86	Ordinary	2,192	2,192
15-Oct-2019	The Vanguard Group, Inc.	SELL	31.70	Ordinary	(460)	(460)
16-Oct-2019	The Vanguard Group, Inc.	BUY	31.71	Ordinary	1,206	1,206
16-Oct-2019	The Vanguard Group, Inc.	BUY	31.91	Ordinary	337	337
17-Oct-2019	The Vanguard Group, Inc.	BUY	32.00	Ordinary	11,605	11,605
21-Oct-2019	The Vanguard Group, Inc.	BUY	31.85	Ordinary	1,206	1,206
21-Oct-2019	The Vanguard Group, Inc.	BUY	31.69	Ordinary	507	507
23-Oct-2019	The Vanguard Group, Inc.	BUY	31.92	Ordinary	2,740	2,740
23-Oct-2019	The Vanguard Group, Inc.	SELL	31.75	Ordinary	(4,441)	(4,441)
23-Oct-2019	The Vanguard Group, Inc.	SELL	31.72	Ordinary	(115,122)	(115,122)
23-Oct-2019	The Vanguard Group, Inc.	BUY	31.75	Ordinary	1,601	1,601
25-Oct-2019	The Vanguard Group, Inc.	SELL	32.71	Ordinary	(10,836)	(10,836)
25-Oct-2019	The Vanguard Group, Inc.	BUY	32.71	Ordinary	1,206	1,206
25-Oct-2019	The Vanguard Group, Inc.	BUY	32.56	Ordinary	507	507
25-Oct-2019	The Vanguard Group, Inc.	BUY	32.56	Ordinary	11,322	11,322
25-Oct-2019	The Vanguard Group, Inc.	SELL	32.56	Ordinary	(20)	(20)
28-Oct-2019	The Vanguard Group, Inc.	BUY	32.59	Ordinary	29,033	29,033
29-Oct-2019	The Vanguard Group, Inc.	SELL	32.52	Ordinary	(9,655)	(9,655)
30-Oct-2019	The Vanguard Group, Inc.	BUY	32.51	Ordinary	20,976	20,976
31-Oct-2019	The Vanguard Group, Inc.	SELL	32.20	Ordinary	(13,161)	(13,161)
31-Oct-2019	The Vanguard Group, Inc.	BUY	32.29	Ordinary	1,330	1,330
13-Jun-2018	Vanguard Investments Australia Ltd.	SELL	33.62	Ordinary	(4,855)	(4,855)
13-Jun-2018	Vanguard Investments Australia Ltd.	BUY	33.64	Ordinary	317,774	317,774
14-Jun-2018	Vanguard Investments Australia Ltd.	BUY	33.61	Ordinary	341,580	341,580
14-Jun-2018	Vanguard Investments Australia Ltd.	BUY	33.72	Ordinary	9,090	9,090
15-Jun-2018	Vanguard Investments Australia Ltd.	BUY	34.26	Ordinary	15,689	15,689
15-Jun-2018	Vanguard Investments Australia Ltd.	BUY	34.26	Ordinary	2,936	2,936
15-Jun-2018	Vanguard Investments Australia Ltd.	BUY	34.26	Ordinary	32,604	32,604
15-Jun-2018	Vanguard Investments Australia Ltd.	BUY	34.26	Ordinary	1,671	1,671
15-Jun-2018	Vanguard Investments Australia Ltd.	BUY	34.26	Ordinary	10,608	10,608
15-Jun-2018	Vanguard Investments Australia Ltd.	BUY	34.26	Ordinary	650,686	650,686
15-Jun-2018	Vanguard Investments Australia Ltd.	BUY	34.26	Ordinary	26,576	26,576
18-Jun-2018	Vanguard Investments Australia Ltd.	BUY	33.87	Ordinary	469,597	469,597
19-Jun-2018	Vanguard Investments Australia Ltd.	BUY	34.44	Ordinary	314,831	314,831
20-Jun-2018	Vanguard Investments Australia Ltd.	SELL	34.74	Ordinary	(1,671)	(1,671)
20-Jun-2018	Vanguard Investments Australia Ltd.	BUY	34.65	Ordinary	253,575	253,575
21-Jun-2018	Vanguard Investments Australia Ltd.	BUY	35.04	Ordinary	15,221	15,221
22-Jun-2018	Vanguard Investments Australia Ltd.	BUY	34.45	Ordinary	46,437	46,437
29-Jun-2018	Vanguard Investments Australia Ltd.	SELL	35.46	Ordinary	(292)	(292)
29-Jun-2018	Vanguard Investments Australia Ltd.	SELL	35.46	Ordinary	(34,835)	(34,835)
29-Jun-2018	Vanguard Investments Australia Ltd.	SELL	35.48	Ordinary	(56,556)	(56,556)
3-Jul-2018	Vanguard Investments Australia Ltd.	BUY	35.45	Ordinary	30,514	30,514
5-Jul-2018	Vanguard Investments Australia Ltd.	BUY	35.48	Ordinary	18,088	18,088
5-Jul-2018	Vanguard Investments Australia Ltd.	BUY	35.48	Ordinary	1,089	1,089
6-Jul-2018	Vanguard Investments Australia Ltd.	BUY	35.72	Ordinary	5,753	5,753
6-Jul-2018	Vanguard Investments Australia Ltd.	BUY	35.72	Ordinary	6,011	6,011

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6-Jul-2018	Vanguard Investments Australia Ltd.	BUY	35.72	Ordinary	17,385	17,385
6-Jul-2018	Vanguard Investments Australia Ltd.	BUY	35.88	Ordinary	8,118	8,118
9-Jul-2018	Vanguard Investments Australia Ltd.	SELL	36.10	Ordinary	(6,753)	(6,753)
16-Jul-2018	Vanguard Investments Australia Ltd.	BUY	35.59	Ordinary	5,412	5,412
16-Jul-2018	Vanguard Investments Australia Ltd.	BUY	35.59	Ordinary	13,873	13,873
17-Jul-2018	Vanguard Investments Australia Ltd.	BUY	34.73	Ordinary	8,287	8,287
18-Jul-2018	Vanguard Investments Australia Ltd.	SELL	34.50	Ordinary	(8,917)	(8,917)
19-Jul-2018	Vanguard Investments Australia Ltd.	BUY	34.20	Ordinary	13,727	13,727
20-Jul-2018	Vanguard Investments Australia Ltd.	SELL	34.45	Ordinary	(5,833)	(5,833)
20-Jul-2018	Vanguard Investments Australia Ltd.	BUY	34.45	Ordinary	9,878	9,878
27-Jul-2018	Vanguard Investments Australia Ltd.	BUY	35.55	Ordinary	17,046	17,046
2-Aug-2018	Vanguard Investments Australia Ltd.	BUY	35.79	Ordinary	8,172	8,172
3-Aug-2018	Vanguard Investments Australia Ltd.	SELL	36.15	Ordinary	(3,615)	(3,615)
3-Aug-2018	Vanguard Investments Australia Ltd.	BUY	36.15	Ordinary	11,854	11,854
7-Aug-2018	Vanguard Investments Australia Ltd.	BUY	36.56	Ordinary	15,079	15,079
9-Aug-2018	Vanguard Investments Australia Ltd.	BUY	36.42	Ordinary	287	287
15-Aug-2018	Vanguard Investments Australia Ltd.	BUY	36.09	Ordinary	5,442	5,442
15-Aug-2018	Vanguard Investments Australia Ltd.	BUY	36.09	Ordinary	13,612	13,612
16-Aug-2018	Vanguard Investments Australia Ltd.	SELL	36.50	Ordinary	(3,673)	(3,673)
20-Aug-2018	Vanguard Investments Australia Ltd.	SELL	37.48	Ordinary	(7,535)	(7,535)
21-Aug-2018	Vanguard Investments Australia Ltd.	BUY	36.56	Ordinary	9,070	9,070
27-Aug-2018	Vanguard Investments Australia Ltd.	BUY	36.36	Ordinary	6,005	6,005
27-Aug-2018	Vanguard Investments Australia Ltd.	BUY	36.36	Ordinary	9,430	9,430
28-Aug-2018	Vanguard Investments Australia Ltd.	BUY	37.00	Ordinary	20,340	20,340
29-Aug-2018	Vanguard Investments Australia Ltd.	BUY	36.77	Ordinary	12,666	12,666
31-Aug-2018	Vanguard Investments Australia Ltd.	BUY	36.92	Ordinary	6,874	6,874
31-Aug-2018	Vanguard Investments Australia Ltd.	BUY	36.92	Ordinary	3,067	3,067
3-Sep-2018	Vanguard Investments Australia Ltd.	SELL	36.70	Ordinary	(229)	(229)
3-Sep-2018	Vanguard Investments Australia Ltd.	SELL	36.70	Ordinary	(16,074)	(16,074)
4-Sep-2018	Vanguard Investments Australia Ltd.	BUY	36.45	Ordinary	9,878	9,878
4-Sep-2018	Vanguard Investments Australia Ltd.	BUY	36.45	Ordinary	10,825	10,825
6-Sep-2018	Vanguard Investments Australia Ltd.	BUY	35.72	Ordinary	15,126	15,126
7-Sep-2018	Vanguard Investments Australia Ltd.	BUY	35.28	Ordinary	3,785	3,785
7-Sep-2018	Vanguard Investments Australia Ltd.	BUY	35.28	Ordinary	10,899	10,899
10-Sep-2018	Vanguard Investments Australia Ltd.	SELL	35.55	Ordinary	(876)	(876)
10-Sep-2018	Vanguard Investments Australia Ltd.	SELL	35.55	Ordinary	(4,699)	(4,699)
10-Sep-2018	Vanguard Investments Australia Ltd.	BUY	35.55	Ordinary	8,970	8,970
11-Sep-2018	Vanguard Investments Australia Ltd.	SELL	36.12	Ordinary	(9,784)	(9,784)
17-Sep-2018	Vanguard Investments Australia Ltd.	BUY	37.07	Ordinary	9,823	9,823
21-Sep-2018	Vanguard Investments Australia Ltd.	BUY	36.95	Ordinary	13,345	13,345
21-Sep-2018	Vanguard Investments Australia Ltd.	BUY	36.95	Ordinary	2,016	2,016
21-Sep-2018	Vanguard Investments Australia Ltd.	BUY	36.95	Ordinary	2,683	2,683
21-Sep-2018	Vanguard Investments Australia Ltd.	BUY	36.95	Ordinary	14,397	14,397
21-Sep-2018	Vanguard Investments Australia Ltd.	BUY	36.95	Ordinary	1,282	1,282
21-Sep-2018	Vanguard Investments Australia Ltd.	BUY	36.95	Ordinary	3,341	3,341
21-Sep-2018	Vanguard Investments Australia Ltd.	BUY	36.95	Ordinary	5,109	5,109
21-Sep-2018	Vanguard Investments Australia Ltd.	BUY	36.95	Ordinary	4,536	4,536
21-Sep-2018	Vanguard Investments Australia Ltd.	BUY	36.95	Ordinary	31,857	31,857
26-Sep-2018	Vanguard Investments Australia Ltd.	BUY	38.55	Ordinary	5,394	5,394
27-Sep-2018	Vanguard Investments Australia Ltd.	BUY	38.69	Ordinary	2,023	2,023
27-Sep-2018	Vanguard Investments Australia Ltd.	BUY	38.69	Ordinary	15,287	15,287
27-Sep-2018	Vanguard Investments Australia Ltd.	BUY	38.69	Ordinary	2,089	2,089
27-Sep-2018	Vanguard Investments Australia Ltd.	BUY	38.69	Ordinary	2,421	2,421
27-Sep-2018	Vanguard Investments Australia Ltd.	BUY	38.69	Ordinary	3,773	3,773
27-Sep-2018	Vanguard Investments Australia Ltd.	BUY	38.69	Ordinary	18,385	18,385
27-Sep-2018	Vanguard Investments Australia Ltd.	BUY	38.69	Ordinary	904	904
27-Sep-2018	Vanguard Investments Australia Ltd.	BUY	38.69	Ordinary	5,145	5,145
27-Sep-2018	Vanguard Investments Australia Ltd.	BUY	38.69	Ordinary	15,651	15,651
27-Sep-2018	Vanguard Investments Australia Ltd.	BUY	38.64	Ordinary	69,223	69,223
28-Sep-2018	Vanguard Investments Australia Ltd.	SELL	38.58	Ordinary	(1,031)	(1,031)
28-Sep-2018	Vanguard Investments Australia Ltd.	SELL	38.58	Ordinary	(34,454)	(34,454)
1-Oct-2018	Vanguard Investments Australia Ltd.	BUY	38.45	Ordinary	7,390	7,390
1-Oct-2018	Vanguard Investments Australia Ltd.	BUY	38.45	Ordinary	7,983	7,983
3-Oct-2018	Vanguard Investments Australia Ltd.	BUY	38.64	Ordinary	12,011	12,011
5-Oct-2018	Vanguard Investments Australia Ltd.	SELL	39.00	Ordinary	(2,672)	(2,672)
8-Oct-2018	Vanguard Investments Australia Ltd.	BUY	38.22	Ordinary	7,983	7,983
9-Oct-2018	Vanguard Investments Australia Ltd.	BUY	37.70	Ordinary	4,434	4,434
10-Oct-2018	Vanguard Investments Australia Ltd.	BUY	38.03	Ordinary	862	862
10-Oct-2018	Vanguard Investments Australia Ltd.	SELL	38.03	Ordinary	(6,703)	(6,703)

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11-Oct-2018	Vanguard Investments Australia Ltd.	BUY	36.65	Ordinary	10,572	10,572
12-Oct-2018	Vanguard Investments Australia Ltd.	BUY	36.00	Ordinary	4,434	4,434
16-Oct-2018	Vanguard Investments Australia Ltd.	SELL	35.90	Ordinary	(5,353)	(5,353)
17-Oct-2018	Vanguard Investments Australia Ltd.	BUY	36.30	Ordinary	4,434	4,434
17-Oct-2018	Vanguard Investments Australia Ltd.	BUY	36.30	Ordinary	15,045	15,045
17-Oct-2018	Vanguard Investments Australia Ltd.	BUY	36.30	Ordinary	17,634	17,634
22-Oct-2018	Vanguard Investments Australia Ltd.	BUY	35.78	Ordinary	2,499	2,499
22-Oct-2018	Vanguard Investments Australia Ltd.	SELL	35.78	Ordinary	(3,289)	(3,289)
23-Oct-2018	Vanguard Investments Australia Ltd.	BUY	34.75	Ordinary	4,434	4,434
23-Oct-2018	Vanguard Investments Australia Ltd.	BUY	34.75	Ordinary	5,912	5,912
24-Oct-2018	Vanguard Investments Australia Ltd.	SELL	34.30	Ordinary	(5,450)	(5,450)
24-Oct-2018	Vanguard Investments Australia Ltd.	BUY	34.30	Ordinary	10,620	10,620
25-Oct-2018	Vanguard Investments Australia Ltd.	BUY	33.60	Ordinary	20,029	20,029
25-Oct-2018	Vanguard Investments Australia Ltd.	SELL	33.60	Ordinary	(6,404)	(6,404)
25-Oct-2018	Vanguard Investments Australia Ltd.	BUY	33.60	Ordinary	5,924	5,924
25-Oct-2018	Vanguard Investments Australia Ltd.	BUY	33.60	Ordinary	12,390	12,390
26-Oct-2018	Vanguard Investments Australia Ltd.	BUY	33.20	Ordinary	36,206	36,206
29-Oct-2018	Vanguard Investments Australia Ltd.	BUY	33.93	Ordinary	5,924	5,924
29-Oct-2018	Vanguard Investments Australia Ltd.	BUY	33.93	Ordinary	9,983	9,983
31-Oct-2018	Vanguard Investments Australia Ltd.	BUY	34.85	Ordinary	14,208	14,208
31-Oct-2018	Vanguard Investments Australia Ltd.	BUY	34.85	Ordinary	2,664	2,664
1-Nov-2018	Vanguard Investments Australia Ltd.	BUY	34.53	Ordinary	3,727	3,727
1-Nov-2018	Vanguard Investments Australia Ltd.	BUY	34.53	Ordinary	1,776	1,776
2-Nov-2018	Vanguard Investments Australia Ltd.	BUY	34.18	Ordinary	11,544	11,544
5-Nov-2018	Vanguard Investments Australia Ltd.	BUY	33.40	Ordinary	19,345	19,345
6-Nov-2018	Vanguard Investments Australia Ltd.	BUY	33.97	Ordinary	21,943	21,943
12-Nov-2018	Vanguard Investments Australia Ltd.	SELL	34.20	Ordinary	(12,665)	(12,665)
12-Nov-2018	Vanguard Investments Australia Ltd.	SELL	34.20	Ordinary	(1,009)	(1,009)
12-Nov-2018	Vanguard Investments Australia Ltd.	BUY	34.20	Ordinary	11,583	11,583
15-Nov-2018	Vanguard Investments Australia Ltd.	SELL	33.06	Ordinary	(4,258)	(4,258)
16-Nov-2018	Vanguard Investments Australia Ltd.	BUY	33.13	Ordinary	442	442
16-Nov-2018	Vanguard Investments Australia Ltd.	BUY	33.13	Ordinary	9,762	9,762
19-Nov-2018	Vanguard Investments Australia Ltd.	BUY	32.59	Ordinary	18,206	18,206
19-Nov-2018	Vanguard Investments Australia Ltd.	SELL	32.55	Ordinary	(37,009)	(37,009)
21-Nov-2018	Vanguard Investments Australia Ltd.	BUY	31.67	Ordinary	12,097	12,097
22-Nov-2018	Vanguard Investments Australia Ltd.	BUY	31.85	Ordinary	4,476	4,476
22-Nov-2018	Vanguard Investments Australia Ltd.	BUY	31.85	Ordinary	4,476	4,476
22-Nov-2018	Vanguard Investments Australia Ltd.	BUY	31.85	Ordinary	12,474	12,474
23-Nov-2018	Vanguard Investments Australia Ltd.	BUY	32.25	Ordinary	20,035	20,035
29-Nov-2018	Vanguard Investments Australia Ltd.	BUY	31.17	Ordinary	9,801	9,801
30-Nov-2018	Vanguard Investments Australia Ltd.	SELL	31.10	Ordinary	(738)	(738)
30-Nov-2018	Vanguard Investments Australia Ltd.	BUY	31.22	Ordinary	17,791	17,791
3-Dec-2018	Vanguard Investments Australia Ltd.	BUY	32.16	Ordinary	11,583	11,583
3-Dec-2018	Vanguard Investments Australia Ltd.	BUY	32.16	Ordinary	16,448	16,448
4-Dec-2018	Vanguard Investments Australia Ltd.	BUY	31.74	Ordinary	88,815	88,815
4-Dec-2018	Vanguard Investments Australia Ltd.	BUY	31.74	Ordinary	159,187	159,187
6-Dec-2018	Vanguard Investments Australia Ltd.	SELL	31.55	Ordinary	(12,786)	(12,786)
6-Dec-2018	Vanguard Investments Australia Ltd.	BUY	31.55	Ordinary	4,473	4,473
7-Dec-2018	Vanguard Investments Australia Ltd.	BUY	31.02	Ordinary	8,113	8,113
10-Dec-2018	Vanguard Investments Australia Ltd.	BUY	31.10	Ordinary	5,964	5,964
11-Dec-2018	Vanguard Investments Australia Ltd.	BUY	30.90	Ordinary	4,473	4,473
11-Dec-2018	Vanguard Investments Australia Ltd.	BUY	30.90	Ordinary	17,780	17,780
11-Dec-2018	Vanguard Investments Australia Ltd.	BUY	30.90	Ordinary	10,668	10,668
12-Dec-2018	Vanguard Investments Australia Ltd.	BUY	31.61	Ordinary	667,774	667,774
14-Dec-2018	Vanguard Investments Australia Ltd.	SELL	31.16	Ordinary	(5,334)	(5,334)
18-Dec-2018	Vanguard Investments Australia Ltd.	BUY	30.75	Ordinary	5,968	5,968
19-Dec-2018	Vanguard Investments Australia Ltd.	BUY	30.18	Ordinary	152,153	152,153
20-Dec-2018	Vanguard Investments Australia Ltd.	SELL	29.69	Ordinary	(3,401)	(3,401)
20-Dec-2018	Vanguard Investments Australia Ltd.	BUY	29.69	Ordinary	1,081	1,081
20-Dec-2018	Vanguard Investments Australia Ltd.	BUY	29.80	Ordinary	52,709	52,709
21-Dec-2018	Vanguard Investments Australia Ltd.	SELL	29.89	Ordinary	(4,550)	(4,550)
21-Dec-2018	Vanguard Investments Australia Ltd.	BUY	29.90	Ordinary	41,564	41,564
21-Dec-2018	Vanguard Investments Australia Ltd.	BUY	29.90	Ordinary	6,343	6,343
21-Dec-2018	Vanguard Investments Australia Ltd.	BUY	29.90	Ordinary	4,720	4,720
21-Dec-2018	Vanguard Investments Australia Ltd.	BUY	29.90	Ordinary	11,005	11,005
21-Dec-2018	Vanguard Investments Australia Ltd.	BUY	29.90	Ordinary	39,674	39,674
21-Dec-2018	Vanguard Investments Australia Ltd.	SELL	29.92	Ordinary	(1,497)	(1,497)
21-Dec-2018	Vanguard Investments Australia Ltd.	BUY	29.90	Ordinary	22,107	22,107
21-Dec-2018	Vanguard Investments Australia Ltd.	BUY	29.90	Ordinary	41,967	41,967

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Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
21-Dec-2018	Vanguard Investments Australia Ltd.	BUY	29.92	Ordinary	4,467	4,467
21-Dec-2018	Vanguard Investments Australia Ltd.	BUY	29.85	Ordinary	474,382	474,382
21-Dec-2018	Vanguard Investments Australia Ltd.	BUY	29.90	Ordinary	87,875	87,875
24-Dec-2018	Vanguard Investments Australia Ltd.	SELL	29.40	Ordinary	(6,798)	(6,798)
27-Dec-2018	Vanguard Investments Australia Ltd.	BUY	31.06	Ordinary	5,382	5,382
31-Dec-2018	Vanguard Investments Australia Ltd.	BUY	31.37	Ordinary	31,412	31,412
31-Dec-2018	Vanguard Investments Australia Ltd.	SELL	31.39	Ordinary	(523)	(523)
31-Dec-2018	Vanguard Investments Australia Ltd.	SELL	31.39	Ordinary	(15,709)	(15,709)
2-Jan-2019	Vanguard Investments Australia Ltd.	SELL	30.49	Ordinary	(5,543)	(5,543)
8-Jan-2019	Vanguard Investments Australia Ltd.	BUY	32.42	Ordinary	8,900	8,900
11-Jan-2019	Vanguard Investments Australia Ltd.	BUY	33.26	Ordinary	10,716	10,716
11-Jan-2019	Vanguard Investments Australia Ltd.	BUY	33.31	Ordinary	19,594	19,594
18-Jan-2019	Vanguard Investments Australia Ltd.	BUY	33.96	Ordinary	1,227	1,227
18-Jan-2019	Vanguard Investments Australia Ltd.	BUY	33.91	Ordinary	2,510	2,510
18-Jan-2019	Vanguard Investments Australia Ltd.	BUY	33.91	Ordinary	1,051	1,051
18-Jan-2019	Vanguard Investments Australia Ltd.	BUY	33.91	Ordinary	8,959	8,959
21-Jan-2019	Vanguard Investments Australia Ltd.	SELL	33.94	Ordinary	(9,867)	(9,867)
21-Jan-2019	Vanguard Investments Australia Ltd.	BUY	33.94	Ordinary	5,553	5,553
22-Jan-2019	Vanguard Investments Australia Ltd.	SELL	33.66	Ordinary	(9,609)	(9,609)
24-Jan-2019	Vanguard Investments Australia Ltd.	SELL	33.85	Ordinary	(9,332)	(9,332)
29-Jan-2019	Vanguard Investments Australia Ltd.	SELL	33.94	Ordinary	(7,763)	(7,763)
29-Jan-2019	Vanguard Investments Australia Ltd.	BUY	33.95	Ordinary	19,728	19,728
30-Jan-2019	Vanguard Investments Australia Ltd.	BUY	34.30	Ordinary	3,564	3,564
30-Jan-2019	Vanguard Investments Australia Ltd.	BUY	34.29	Ordinary	15,132	15,132
1-Feb-2019	Vanguard Investments Australia Ltd.	SELL	33.91	Ordinary	(2,015)	(2,015)
1-Feb-2019	Vanguard Investments Australia Ltd.	BUY	33.88	Ordinary	27,913	27,913
4-Feb-2019	Vanguard Investments Australia Ltd.	BUY	34.10	Ordinary	6,434	6,434
5-Feb-2019	Vanguard Investments Australia Ltd.	SELL	34.50	Ordinary	(7,211)	(7,211)
5-Feb-2019	Vanguard Investments Australia Ltd.	SELL	34.50	Ordinary	(62,370)	(62,370)
12-Feb-2019	Vanguard Investments Australia Ltd.	SELL	34.60	Ordinary	(4,440)	(4,440)
12-Feb-2019	Vanguard Investments Australia Ltd.	SELL	34.60	Ordinary	(6,094)	(6,094)
13-Feb-2019	Vanguard Investments Australia Ltd.	BUY	34.86	Ordinary	41,502	41,502
15-Feb-2019	Vanguard Investments Australia Ltd.	SELL	36.06	Ordinary	(4,752)	(4,752)
15-Feb-2019	Vanguard Investments Australia Ltd.	SELL	36.06	Ordinary	(691)	(691)
19-Feb-2019	Vanguard Investments Australia Ltd.	BUY	37.01	Ordinary	9,790	9,790
20-Feb-2019	Vanguard Investments Australia Ltd.	SELL	37.30	Ordinary	(8,608)	(8,608)
22-Feb-2019	Vanguard Investments Australia Ltd.	BUY	35.51	Ordinary	8,460	8,460
25-Feb-2019	Vanguard Investments Australia Ltd.	BUY	35.77	Ordinary	27,277	27,277
26-Feb-2019	Vanguard Investments Australia Ltd.	SELL	35.67	Ordinary	(25,924)	(25,924)
26-Feb-2019	Vanguard Investments Australia Ltd.	BUY	35.70	Ordinary	27,482	27,482
26-Feb-2019	Vanguard Investments Australia Ltd.	BUY	35.70	Ordinary	8,900	8,900
28-Feb-2019	Vanguard Investments Australia Ltd.	BUY	36.25	Ordinary	1,100	1,100
28-Feb-2019	Vanguard Investments Australia Ltd.	BUY	36.25	Ordinary	405	405
5-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.70	Ordinary	57,728	57,728
6-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.62	Ordinary	418	418
7-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.77	Ordinary	8,516	8,516
11-Mar-2019	Vanguard Investments Australia Ltd.	SELL	34.70	Ordinary	(3,500)	(3,500)
12-Mar-2019	Vanguard Investments Australia Ltd.	SELL	34.96	Ordinary	(9,870)	(9,870)
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.29	Ordinary	210	210
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.31	Ordinary	5,019	5,019
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.29	Ordinary	1,061	1,061
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.31	Ordinary	25,362	25,362
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.29	Ordinary	249	249
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.31	Ordinary	5,962	5,962
15-Mar-2019	Vanguard Investments Australia Ltd.	SELL	35.29	Ordinary	(5,614)	(5,614)
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.29	Ordinary	521	521
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.31	Ordinary	12,473	12,473
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.29	Ordinary	917	917
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.31	Ordinary	21,936	21,936
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.29	Ordinary	573	573
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.31	Ordinary	13,703	13,703
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.29	Ordinary	651	651
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.31	Ordinary	15,571	15,571
19-Mar-2019	Vanguard Investments Australia Ltd.	SELL	35.45	Ordinary	(2,186)	(2,186)
21-Mar-2019	Vanguard Investments Australia Ltd.	SELL	35.55	Ordinary	(9,618)	(9,618)
21-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.55	Ordinary	11,867	11,867
22-Mar-2019	Vanguard Investments Australia Ltd.	BUY	35.80	Ordinary	12,167	12,167
29-Mar-2019	Vanguard Investments Australia Ltd.	SELL	34.62	Ordinary	(589)	(589)
29-Mar-2019	Vanguard Investments Australia Ltd.	SELL	34.62	Ordinary	(30,286)	(30,286)

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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
1-Apr-2019	Vanguard Investments Australia Ltd.	BUY	34.78	Ordinary	642	642
1-Apr-2019	Vanguard Investments Australia Ltd.	BUY	34.78	Ordinary	22,711	22,711
1-Apr-2019	Vanguard Investments Australia Ltd.	BUY	34.78	Ordinary	3,426	3,426
1-Apr-2019	Vanguard Investments Australia Ltd.	SELL	34.78	Ordinary	(44,618)	(44,618)
1-Apr-2019	Vanguard Investments Australia Ltd.	SELL	34.78	Ordinary	(1,090)	(1,090)
1-Apr-2019	Vanguard Investments Australia Ltd.	BUY	34.78	Ordinary	26,475	26,475
2-Apr-2019	Vanguard Investments Australia Ltd.	BUY	35.10	Ordinary	1,649	1,649
2-Apr-2019	Vanguard Investments Australia Ltd.	BUY	35.10	Ordinary	5,148	5,148
2-Apr-2019	Vanguard Investments Australia Ltd.	BUY	35.10	Ordinary	13,757	13,757
2-Apr-2019	Vanguard Investments Australia Ltd.	BUY	35.10	Ordinary	26,300	26,300
2-Apr-2019	Vanguard Investments Australia Ltd.	BUY	34.94	Ordinary	9,345	9,345
2-Apr-2019	Vanguard Investments Australia Ltd.	BUY	34.94	Ordinary	6,230	6,230
3-Apr-2019	Vanguard Investments Australia Ltd.	SELL	34.85	Ordinary	(640)	(640)
5-Apr-2019	Vanguard Investments Australia Ltd.	BUY	34.25	Ordinary	9,133	9,133
5-Apr-2019	Vanguard Investments Australia Ltd.	SELL	34.10	Ordinary	(4,787)	(4,787)
8-Apr-2019	Vanguard Investments Australia Ltd.	BUY	34.56	Ordinary	7,112	7,112
8-Apr-2019	Vanguard Investments Australia Ltd.	BUY	34.56	Ordinary	386	386
9-Apr-2019	Vanguard Investments Australia Ltd.	SELL	35.50	Ordinary	(2,158)	(2,158)
9-Apr-2019	Vanguard Investments Australia Ltd.	BUY	35.50	Ordinary	278,733	278,733
11-Apr-2019	Vanguard Investments Australia Ltd.	BUY	35.40	Ordinary	15,034	15,034
12-Apr-2019	Vanguard Investments Australia Ltd.	SELL	35.76	Ordinary	(2,760)	(2,760)
16-Apr-2019	Vanguard Investments Australia Ltd.	BUY	35.53	Ordinary	55,822	55,822
18-Apr-2019	Vanguard Investments Australia Ltd.	SELL	35.65	Ordinary	(3,169)	(3,169)
23-Apr-2019	Vanguard Investments Australia Ltd.	SELL	36.56	Ordinary	(9,595)	(9,595)
26-Apr-2019	Vanguard Investments Australia Ltd.	SELL	36.20	Ordinary	(4,192)	(4,192)
30-Apr-2019	Vanguard Investments Australia Ltd.	SELL	35.39	Ordinary	(13,852)	(13,852)
30-Apr-2019	Vanguard Investments Australia Ltd.	BUY	35.39	Ordinary	10,764	10,764
1-May-2019	Vanguard Investments Australia Ltd.	BUY	35.53	Ordinary	1,909	1,909
1-May-2019	Vanguard Investments Australia Ltd.	BUY	35.53	Ordinary	17,173	17,173
1-May-2019	Vanguard Investments Australia Ltd.	BUY	35.53	Ordinary	2,300	2,300
1-May-2019	Vanguard Investments Australia Ltd.	BUY	35.53	Ordinary	20,745	20,745
1-May-2019	Vanguard Investments Australia Ltd.	BUY	35.53	Ordinary	4,395	4,395
1-May-2019	Vanguard Investments Australia Ltd.	BUY	35.53	Ordinary	39,683	39,683
6-May-2019	Vanguard Investments Australia Ltd.	BUY	34.74	Ordinary	16,844	16,844
7-May-2019	Vanguard Investments Australia Ltd.	SELL	34.90	Ordinary	(2,456)	(2,456)
10-May-2019	Vanguard Investments Australia Ltd.	BUY	35.95	Ordinary	1,278	1,278
10-May-2019	Vanguard Investments Australia Ltd.	BUY	35.95	Ordinary	2,301	2,301
10-May-2019	Vanguard Investments Australia Ltd.	BUY	35.95	Ordinary	2,298	2,298
10-May-2019	Vanguard Investments Australia Ltd.	BUY	35.73	Ordinary	8,028	8,028
14-May-2019	Vanguard Investments Australia Ltd.	SELL	35.67	Ordinary	(3,149)	(3,149)
15-May-2019	Vanguard Investments Australia Ltd.	SELL	36.19	Ordinary	(4,439)	(4,439)
16-May-2019	Vanguard Investments Australia Ltd.	BUY	36.72	Ordinary	18,090	18,090
17-May-2019	Vanguard Investments Australia Ltd.	BUY	37.20	Ordinary	493	493
17-May-2019	Vanguard Investments Australia Ltd.	BUY	37.20	Ordinary	27,158	27,158
17-May-2019	Vanguard Investments Australia Ltd.	BUY	37.20	Ordinary	8,990	8,990
21-May-2019	Vanguard Investments Australia Ltd.	BUY	37.02	Ordinary	8,990	8,990
22-May-2019	Vanguard Investments Australia Ltd.	BUY	37.34	Ordinary	6,647	6,647
27-May-2019	Vanguard Investments Australia Ltd.	SELL	35.79	Ordinary	(18,455)	(18,455)
28-May-2019	Vanguard Investments Australia Ltd.	SELL	36.02	Ordinary	(2,590)	(2,590)
28-May-2019	Vanguard Investments Australia Ltd.	BUY	36.03	Ordinary	8,560	8,560
29-May-2019	Vanguard Investments Australia Ltd.	SELL	35.95	Ordinary	(13,447)	(13,447)
30-May-2019	Vanguard Investments Australia Ltd.	SELL	35.79	Ordinary	(943)	(943)
30-May-2019	Vanguard Investments Australia Ltd.	BUY	35.79	Ordinary	51,096	51,096
3-Jun-2019	Vanguard Investments Australia Ltd.	SELL	34.57	Ordinary	(15,706)	(15,706)
3-Jun-2019	Vanguard Investments Australia Ltd.	SELL	34.57	Ordinary	(9,234)	(9,234)
4-Jun-2019	Vanguard Investments Australia Ltd.	BUY	34.57	Ordinary	983	983
4-Jun-2019	Vanguard Investments Australia Ltd.	BUY	34.10	Ordinary	109,043	109,043
4-Jun-2019	Vanguard Investments Australia Ltd.	BUY	34.10	Ordinary	8,560	8,560
5-Jun-2019	Vanguard Investments Australia Ltd.	BUY	34.20	Ordinary	3,898	3,898
6-Jun-2019	Vanguard Investments Australia Ltd.	BUY	34.06	Ordinary	2,198	2,198
6-Jun-2019	Vanguard Investments Australia Ltd.	BUY	34.06	Ordinary	3,898	3,898
6-Jun-2019	Vanguard Investments Australia Ltd.	BUY	34.06	Ordinary	10,272	10,272
7-Jun-2019	Vanguard Investments Australia Ltd.	BUY	34.64	Ordinary	3,257	3,257
7-Jun-2019	Vanguard Investments Australia Ltd.	SELL	34.64	Ordinary	(978)	(978)
7-Jun-2019	Vanguard Investments Australia Ltd.	BUY	34.64	Ordinary	1,032	1,032
7-Jun-2019	Vanguard Investments Australia Ltd.	BUY	34.69	Ordinary	43,788	43,788
11-Jun-2019	Vanguard Investments Australia Ltd.	SELL	35.15	Ordinary	(3,188)	(3,188)
11-Jun-2019	Vanguard Investments Australia Ltd.	BUY	35.15	Ordinary	5,847	5,847
12-Jun-2019	Vanguard Investments Australia Ltd.	BUY	35.19	Ordinary	29,904	29,904

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Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
13-Jun-2019	Vanguard Investments Australia Ltd.	BUY	34.37	Ordinary	3,898	3,898
17-Jun-2019	Vanguard Investments Australia Ltd.	BUY	34.96	Ordinary	6,848	6,848
18-Jun-2019	Vanguard Investments Australia Ltd.	SELL	35.06	Ordinary	(65,000)	(65,000)
19-Jun-2019	Vanguard Investments Australia Ltd.	SELL	35.91	Ordinary	(47,180)	(47,180)
20-Jun-2019	Vanguard Investments Australia Ltd.	SELL	36.15	Ordinary	(6,894)	(6,894)
20-Jun-2019	Vanguard Investments Australia Ltd.	SELL	36.26	Ordinary	(42,462)	(42,462)
21-Jun-2019	Vanguard Investments Australia Ltd.	BUY	37.11	Ordinary	4,796	4,796
21-Jun-2019	Vanguard Investments Australia Ltd.	BUY	37.11	Ordinary	1,706	1,706
21-Jun-2019	Vanguard Investments Australia Ltd.	SELL	37.11	Ordinary	(1,583)	(1,583)
21-Jun-2019	Vanguard Investments Australia Ltd.	BUY	37.11	Ordinary	17,242	17,242
21-Jun-2019	Vanguard Investments Australia Ltd.	BUY	37.11	Ordinary	5,841	5,841
21-Jun-2019	Vanguard Investments Australia Ltd.	SELL	37.15	Ordinary	(305,257)	(305,257)
21-Jun-2019	Vanguard Investments Australia Ltd.	BUY	37.11	Ordinary	5,166	5,166
21-Jun-2019	Vanguard Investments Australia Ltd.	BUY	37.11	Ordinary	46,400	46,400
24-Jun-2019	Vanguard Investments Australia Ltd.	SELL	37.20	Ordinary	(76,904)	(76,904)
25-Jun-2019	Vanguard Investments Australia Ltd.	SELL	36.97	Ordinary	(18,432)	(18,432)
26-Jun-2019	Vanguard Investments Australia Ltd.	BUY	37.07	Ordinary	4,956	4,956
27-Jun-2019	Vanguard Investments Australia Ltd.	SELL	37.15	Ordinary	(7,773)	(7,773)
27-Jun-2019	Vanguard Investments Australia Ltd.	BUY	37.15	Ordinary	6,620	6,620
27-Jun-2019	Vanguard Investments Australia Ltd.	BUY	37.15	Ordinary	6,062	6,062
28-Jun-2019	Vanguard Investments Australia Ltd.	SELL	36.36	Ordinary	(19,818)	(19,818)
2-Jul-2019	Vanguard Investments Australia Ltd.	BUY	36.74	Ordinary	4,902	4,902
2-Jul-2019	Vanguard Investments Australia Ltd.	BUY	36.74	Ordinary	10,272	10,272
5-Jul-2019	Vanguard Investments Australia Ltd.	BUY	36.20	Ordinary	11,000	11,000
8-Jul-2019	Vanguard Investments Australia Ltd.	BUY	36.08	Ordinary	9,804	9,804
8-Jul-2019	Vanguard Investments Australia Ltd.	BUY	36.08	Ordinary	5,142	5,142
9-Jul-2019	Vanguard Investments Australia Ltd.	BUY	36.08	Ordinary	5,142	5,142
9-Jul-2019	Vanguard Investments Australia Ltd.	BUY	36.08	Ordinary	7,501	7,501
11-Jul-2019	Vanguard Investments Australia Ltd.	BUY	36.14	Ordinary	1,879	1,879
11-Jul-2019	Vanguard Investments Australia Ltd.	BUY	36.04	Ordinary	5,142	5,142
12-Jul-2019	Vanguard Investments Australia Ltd.	SELL	35.85	Ordinary	(1,779)	(1,779)
15-Jul-2019	Vanguard Investments Australia Ltd.	BUY	36.02	Ordinary	4,091	4,091
15-Jul-2019	Vanguard Investments Australia Ltd.	BUY	36.02	Ordinary	18,303	18,303
15-Jul-2019	Vanguard Investments Australia Ltd.	BUY	35.83	Ordinary	4,902	4,902
16-Jul-2019	Vanguard Investments Australia Ltd.	BUY	35.22	Ordinary	12,917	12,917
16-Jul-2019	Vanguard Investments Australia Ltd.	BUY	35.22	Ordinary	2,791	2,791
16-Jul-2019	Vanguard Investments Australia Ltd.	BUY	35.22	Ordinary	7,996	7,996
16-Jul-2019	Vanguard Investments Australia Ltd.	BUY	35.06	Ordinary	10,284	10,284
16-Jul-2019	Vanguard Investments Australia Ltd.	BUY	35.06	Ordinary	13,618	13,618
17-Jul-2019	Vanguard Investments Australia Ltd.	SELL	34.95	Ordinary	(11,844)	(11,844)
18-Jul-2019	Vanguard Investments Australia Ltd.	BUY	34.00	Ordinary	4,965	4,965
18-Jul-2019	Vanguard Investments Australia Ltd.	SELL	34.00	Ordinary	(3,961)	(3,961)
19-Jul-2019	Vanguard Investments Australia Ltd.	SELL	33.60	Ordinary	(5,300)	(5,300)
19-Jul-2019	Vanguard Investments Australia Ltd.	BUY	33.60	Ordinary	10,960	10,960
22-Jul-2019	Vanguard Investments Australia Ltd.	SELL	33.65	Ordinary	(577,758)	(577,758)
22-Jul-2019	Vanguard Investments Australia Ltd.	BUY	33.65	Ordinary	4,902	4,902
23-Jul-2019	Vanguard Investments Australia Ltd.	SELL	33.95	Ordinary	(2,972)	(2,972)
24-Jul-2019	Vanguard Investments Australia Ltd.	BUY	34.17	Ordinary	4,748	4,748
26-Jul-2019	Vanguard Investments Australia Ltd.	SELL	34.42	Ordinary	(2,649)	(2,649)
30-Jul-2019	Vanguard Investments Australia Ltd.	BUY	34.67	Ordinary	9,383	9,383
31-Jul-2019	Vanguard Investments Australia Ltd.	BUY	34.70	Ordinary	19,606	19,606
31-Jul-2019	Vanguard Investments Australia Ltd.	BUY	34.70	Ordinary	4,902	4,902
1-Aug-2019	Vanguard Investments Australia Ltd.	SELL	34.60	Ordinary	(5,650)	(5,650)
2-Aug-2019	Vanguard Investments Australia Ltd.	SELL	33.81	Ordinary	(5,930)	(5,930)
6-Aug-2019	Vanguard Investments Australia Ltd.	SELL	32.90	Ordinary	(5,922)	(5,922)
6-Aug-2019	Vanguard Investments Australia Ltd.	BUY	32.90	Ordinary	6,536	6,536
6-Aug-2019	Vanguard Investments Australia Ltd.	BUY	32.90	Ordinary	7,686	7,686
6-Aug-2019	Vanguard Investments Australia Ltd.	BUY	32.90	Ordinary	7,686	7,686
6-Aug-2019	Vanguard Investments Australia Ltd.	BUY	32.90	Ordinary	8,958	8,958
7-Aug-2019	Vanguard Investments Australia Ltd.	BUY	32.76	Ordinary	11,438	11,438
7-Aug-2019	Vanguard Investments Australia Ltd.	BUY	32.76	Ordinary	5,814	5,814
8-Aug-2019	Vanguard Investments Australia Ltd.	BUY	33.18	Ordinary	9,394	9,394
8-Aug-2019	Vanguard Investments Australia Ltd.	BUY	33.18	Ordinary	18,481	18,481
9-Aug-2019	Vanguard Investments Australia Ltd.	BUY	33.17	Ordinary	10,870	10,870
12-Aug-2019	Vanguard Investments Australia Ltd.	BUY	33.22	Ordinary	9,372	9,372
13-Aug-2019	Vanguard Investments Australia Ltd.	SELL	33.04	Ordinary	(3,078)	(3,078)
14-Aug-2019	Vanguard Investments Australia Ltd.	BUY	33.43	Ordinary	2,230	2,230
14-Aug-2019	Vanguard Investments Australia Ltd.	BUY	33.43	Ordinary	6,560	6,560
14-Aug-2019	Vanguard Investments Australia Ltd.	BUY	33.43	Ordinary	18,703	18,703

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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
15-Aug-2019	Vanguard Investments Australia Ltd.	BUY	31.18	Ordinary	6,560	6,560
16-Aug-2019	Vanguard Investments Australia Ltd.	BUY	31.21	Ordinary	12,216	12,216
19-Aug-2019	Vanguard Investments Australia Ltd.	BUY	31.73	Ordinary	15,964	15,964
20-Aug-2019	Vanguard Investments Australia Ltd.	BUY	32.29	Ordinary	8,411	8,411
20-Aug-2019	Vanguard Investments Australia Ltd.	SELL	32.29	Ordinary	(2,928)	(2,928)
20-Aug-2019	Vanguard Investments Australia Ltd.	BUY	32.29	Ordinary	10,052	10,052
21-Aug-2019	Vanguard Investments Australia Ltd.	BUY	32.18	Ordinary	4,926	4,926
21-Aug-2019	Vanguard Investments Australia Ltd.	BUY	32.18	Ordinary	11,017	11,017
22-Aug-2019	Vanguard Investments Australia Ltd.	BUY	32.37	Ordinary	4,238	4,238
22-Aug-2019	Vanguard Investments Australia Ltd.	BUY	32.37	Ordinary	4,921	4,921
27-Aug-2019	Vanguard Investments Australia Ltd.	BUY	30.96	Ordinary	3,366	3,366
27-Aug-2019	Vanguard Investments Australia Ltd.	BUY	30.96	Ordinary	369,754	369,754
27-Aug-2019	Vanguard Investments Australia Ltd.	BUY	30.96	Ordinary	12,318	12,318
28-Aug-2019	Vanguard Investments Australia Ltd.	BUY	31.44	Ordinary	22,001	22,001
29-Aug-2019	Vanguard Investments Australia Ltd.	BUY	31.62	Ordinary	4,944	4,944
30-Aug-2019	Vanguard Investments Australia Ltd.	BUY	32.13	Ordinary	20,805	20,805
30-Aug-2019	Vanguard Investments Australia Ltd.	BUY	32.13	Ordinary	7,652	7,652
2-Sep-2019	Vanguard Investments Australia Ltd.	BUY	31.80	Ordinary	18,832	18,832
3-Sep-2019	Vanguard Investments Australia Ltd.	BUY	31.54	Ordinary	91,864	91,864
4-Sep-2019	Vanguard Investments Australia Ltd.	BUY	31.19	Ordinary	14,170	14,170
4-Sep-2019	Vanguard Investments Australia Ltd.	BUY	31.19	Ordinary	6,608	6,608
5-Sep-2019	Vanguard Investments Australia Ltd.	BUY	31.66	Ordinary	446	446
5-Sep-2019	Vanguard Investments Australia Ltd.	BUY	31.66	Ordinary	6,632	6,632
5-Sep-2019	Vanguard Investments Australia Ltd.	BUY	31.66	Ordinary	22,110	22,110
5-Sep-2019	Vanguard Investments Australia Ltd.	BUY	31.66	Ordinary	18,494	18,494
6-Sep-2019	Vanguard Investments Australia Ltd.	SELL	31.85	Ordinary	(1,873)	(1,873)
9-Sep-2019	Vanguard Investments Australia Ltd.	BUY	31.73	Ordinary	6,632	6,632
10-Sep-2019	Vanguard Investments Australia Ltd.	BUY	32.33	Ordinary	7,177	7,177
10-Sep-2019	Vanguard Investments Australia Ltd.	SELL	32.33	Ordinary	(2,059)	(2,059)
12-Sep-2019	Vanguard Investments Australia Ltd.	BUY	31.51	Ordinary	3,402	3,402
13-Sep-2019	Vanguard Investments Australia Ltd.	BUY	31.35	Ordinary	3,335	3,335
13-Sep-2019	Vanguard Investments Australia Ltd.	SELL	31.35	Ordinary	(4,611)	(4,611)
17-Sep-2019	Vanguard Investments Australia Ltd.	BUY	33.36	Ordinary	4,573	4,573
17-Sep-2019	Vanguard Investments Australia Ltd.	BUY	33.36	Ordinary	16,245	16,245
18-Sep-2019	Vanguard Investments Australia Ltd.	SELL	32.52	Ordinary	(4,741)	(4,741)
19-Sep-2019	Vanguard Investments Australia Ltd.	BUY	32.17	Ordinary	4,977	4,977
19-Sep-2019	Vanguard Investments Australia Ltd.	SELL	32.17	Ordinary	(12,705)	(12,705)
20-Sep-2019	Vanguard Investments Australia Ltd.	SELL	32.31	Ordinary	(2,478)	(2,478)
20-Sep-2019	Vanguard Investments Australia Ltd.	SELL	32.31	Ordinary	(24,836)	(24,836)
20-Sep-2019	Vanguard Investments Australia Ltd.	SELL	32.31	Ordinary	(2,222)	(2,222)
20-Sep-2019	Vanguard Investments Australia Ltd.	BUY	32.29	Ordinary	8,580	8,580
23-Sep-2019	Vanguard Investments Australia Ltd.	BUY	32.62	Ordinary	12,720	12,720
24-Sep-2019	Vanguard Investments Australia Ltd.	BUY	32.46	Ordinary	2,112	2,112
25-Sep-2019	Vanguard Investments Australia Ltd.	SELL	32.10	Ordinary	(4,009)	(4,009)
25-Sep-2019	Vanguard Investments Australia Ltd.	BUY	32.10	Ordinary	11,886	11,886
26-Sep-2019	Vanguard Investments Australia Ltd.	SELL	31.73	Ordinary	(386)	(386)
27-Sep-2019	Vanguard Investments Australia Ltd.	BUY	32.03	Ordinary	11,578	11,578
27-Sep-2019	Vanguard Investments Australia Ltd.	BUY	32.03	Ordinary	6,616	6,616
27-Sep-2019	Vanguard Investments Australia Ltd.	BUY	32.03	Ordinary	10,188	10,188
30-Sep-2019	Vanguard Investments Australia Ltd.	SELL	32.38	Ordinary	(5,878)	(5,878)
30-Sep-2019	Vanguard Investments Australia Ltd.	SELL	32.38	Ordinary	(772)	(772)
30-Sep-2019	Vanguard Investments Australia Ltd.	SELL	32.38	Ordinary	(29,735)	(29,735)
2-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.74	Ordinary	25,168	25,168
2-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.74	Ordinary	4,938	4,938
2-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.74	Ordinary	1,707	1,707
2-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.74	Ordinary	6,781	6,781
2-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.74	Ordinary	15,941	15,941
2-Oct-2019	Vanguard Investments Australia Ltd.	SELL	31.74	Ordinary	(20,136)	(20,136)
3-Oct-2019	Vanguard Investments Australia Ltd.	BUY	30.82	Ordinary	17,595	17,595
3-Oct-2019	Vanguard Investments Australia Ltd.	BUY	30.77	Ordinary	9,762	9,762
4-Oct-2019	Vanguard Investments Australia Ltd.	BUY	30.85	Ordinary	3,224	3,224
4-Oct-2019	Vanguard Investments Australia Ltd.	BUY	30.85	Ordinary	15,129	15,129
4-Oct-2019	Vanguard Investments Australia Ltd.	BUY	30.85	Ordinary	14,246	14,246
7-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.20	Ordinary	13,221	13,221
9-Oct-2019	Vanguard Investments Australia Ltd.	BUY	30.85	Ordinary	8,135	8,135
10-Oct-2019	Vanguard Investments Australia Ltd.	BUY	30.89	Ordinary	3,699	3,699
10-Oct-2019	Vanguard Investments Australia Ltd.	BUY	30.89	Ordinary	13,219	13,219
11-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.22	Ordinary	4,424	4,424
11-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.22	Ordinary	6,680	6,680

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Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
14-Oct-2019	Vanguard Investments Australia Ltd.	BUY	32.00	Ordinary	123,604	123,604
14-Oct-2019	Vanguard Investments Australia Ltd.	SELL	32.00	Ordinary	(3,203)	(3,203)
14-Oct-2019	Vanguard Investments Australia Ltd.	SELL	32.00	Ordinary	(3,689)	(3,689)
16-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.91	Ordinary	146,477	146,477
17-Oct-2019	Vanguard Investments Australia Ltd.	BUY	32.12	Ordinary	6,508	6,508
18-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.93	Ordinary	4,881	4,881
18-Oct-2019	Vanguard Investments Australia Ltd.	SELL	31.93	Ordinary	(2,491)	(2,491)
18-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.93	Ordinary	8,360	8,360
18-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.83	Ordinary	28,284	28,284
21-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.65	Ordinary	9,705	9,705
22-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.70	Ordinary	8,360	8,360
22-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.70	Ordinary	5,652	5,652
23-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.75	Ordinary	9,870	9,870
23-Oct-2019	Vanguard Investments Australia Ltd.	BUY	31.75	Ordinary	5,122	5,122
24-Oct-2019	Vanguard Investments Australia Ltd.	SELL	32.50	Ordinary	(1,922)	(1,922)
28-Oct-2019	Vanguard Investments Australia Ltd.	BUY	32.59	Ordinary	8,370	8,370
30-Oct-2019	Vanguard Investments Australia Ltd.	BUY	32.35	Ordinary	29,621	29,621
30-Oct-2019	Vanguard Investments Australia Ltd.	BUY	32.35	Ordinary	6,508	6,508
30-Oct-2019	Vanguard Investments Australia Ltd.	BUY	32.35	Ordinary	4,881	4,881
30-Oct-2019	Vanguard Investments Australia Ltd.	BUY	32.35	Ordinary	21,257	21,257
31-Oct-2019	Vanguard Investments Australia Ltd.	BUY	32.20	Ordinary	19,397	19,397
31-Oct-2019	Vanguard Investments Australia Ltd.	BUY	32.20	Ordinary	20,064	20,064
31-Oct-2019	Vanguard Investments Australia Ltd.	BUY	32.18	Ordinary	24,965	24,965

This is Annexure A of 18 pages referred to in Form 604, Notice of change of interest of substantial holder.

Signature: 

Name: Keith Delgado

Capacity: Compliance Manager

Date: 05 November 2019