

Form 604
Corporations Act 2001
Section 671B

Notice of change of interests of substantial holder

To Company Name/Scheme Caltex Australia Limited
ACN/ARSN 004 201 307

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 22 January 2020

The previous notice was given to the company on 13 April 2018

The previous notice was dated 13 April 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	13,055,040	5.006%	14,998,627	6.006%

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 – 926,947	926,947
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 – 6,737,975	6,737,975
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 – 3,736	3,736
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 – 681,786	681,786
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 – 2,472,867	2,472,867
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 – 4,175,316	4,175,316

5. Changes in association

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

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

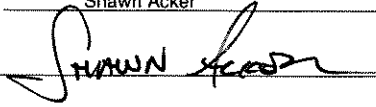
6. Addresses

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

Name	Address
Vanguard Group	P.O. Box 2600, V26 Valley Forge, PA 19482 USA

Signature

print name Shawn Acker capacity Compliance Manager

sign here  date 24 January 2020

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.

To Company Caltex Australia Limited
ACN/ARSN 004 201 307

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
13-Apr-2018	The Vanguard Group, Inc.	BUY	31.65	Ordinary	368	368
16-Apr-2018	The Vanguard Group, Inc.	BUY	31.83	Ordinary	387	387
18-Apr-2018	The Vanguard Group, Inc.	BUY	31.80	Ordinary	2,010	2,010
18-Apr-2018	The Vanguard Group, Inc.	BUY	31.99	Ordinary	17,867	17,867
18-Apr-2018	The Vanguard Group, Inc.	BUY	31.80	Ordinary	3,168	3,168
19-Apr-2018	The Vanguard Group, Inc.	BUY	31.83	Ordinary	3,482	3,482
24-Apr-2018	The Vanguard Group, Inc.	BUY	30.71	Ordinary	368	368
26-Apr-2018	The Vanguard Group, Inc.	BUY	30.99	Ordinary	2,010	2,010
26-Apr-2018	The Vanguard Group, Inc.	BUY	30.99	Ordinary	5,504	5,504
26-Apr-2018	The Vanguard Group, Inc.	BUY	31.13	Ordinary	5,843	5,843
27-Apr-2018	The Vanguard Group, Inc.	BUY	30.87	Ordinary	2,211	2,211
27-Apr-2018	The Vanguard Group, Inc.	SELL	30.97	Ordinary	(183)	(183)
27-Apr-2018	The Vanguard Group, Inc.	BUY	30.87	Ordinary	384	384
1-May-2018	The Vanguard Group, Inc.	SELL	31.27	Ordinary	(822)	(822)
3-May-2018	The Vanguard Group, Inc.	BUY	31.09	Ordinary	368	368
3-May-2018	The Vanguard Group, Inc.	BUY	31.09	Ordinary	368	368
7-May-2018	The Vanguard Group, Inc.	BUY	30.95	Ordinary	2,064	2,064
7-May-2018	The Vanguard Group, Inc.	BUY	30.95	Ordinary	368	368
9-May-2018	The Vanguard Group, Inc.	BUY	30.43	Ordinary	38,383	38,383
9-May-2018	The Vanguard Group, Inc.	BUY	30.52	Ordinary	5,160	5,160
14-May-2018	The Vanguard Group, Inc.	BUY	30.79	Ordinary	526	526
15-May-2018	The Vanguard Group, Inc.	BUY	30.62	Ordinary	4,128	4,128
15-May-2018	The Vanguard Group, Inc.	BUY	30.98	Ordinary	5,598	5,598
16-May-2018	The Vanguard Group, Inc.	BUY	30.74	Ordinary	4,108	4,108
17-May-2018	The Vanguard Group, Inc.	BUY	30.74	Ordinary	368	368
22-May-2018	The Vanguard Group, Inc.	BUY	30.00	Ordinary	3,819	3,819
22-May-2018	The Vanguard Group, Inc.	BUY	30.00	Ordinary	2,408	2,408
23-May-2018	The Vanguard Group, Inc.	BUY	29.77	Ordinary	2,394	2,394
24-May-2018	The Vanguard Group, Inc.	SELL	29.39	Ordinary	(548)	(548)
24-May-2018	The Vanguard Group, Inc.	BUY	29.39	Ordinary	368	368
25-May-2018	The Vanguard Group, Inc.	BUY	29.40	Ordinary	1,032	1,032
30-May-2018	The Vanguard Group, Inc.	BUY	28.84	Ordinary	17,642	17,642
31-May-2018	The Vanguard Group, Inc.	BUY	29.44	Ordinary	274	274
31-May-2018	The Vanguard Group, Inc.	SELL	29.44	Ordinary	(2,477)	(2,477)
31-May-2018	The Vanguard Group, Inc.	SELL	29.44	Ordinary	(1,788)	(1,788)
1-Jun-2018	The Vanguard Group, Inc.	BUY	29.75	Ordinary	27,286	27,286
1-Jun-2018	The Vanguard Group, Inc.	BUY	29.89	Ordinary	1,720	1,720
5-Jun-2018	The Vanguard Group, Inc.	BUY	29.05	Ordinary	448	448
7-Jun-2018	The Vanguard Group, Inc.	SELL	29.29	Ordinary	(3,403)	(3,403)
14-Jun-2018	The Vanguard Group, Inc.	BUY	30.32	Ordinary	368	368
14-Jun-2018	The Vanguard Group, Inc.	BUY	30.55	Ordinary	2,509	2,509
15-Jun-2018	The Vanguard Group, Inc.	SELL	30.52	Ordinary	(4,708)	(4,708)
21-Jun-2018	The Vanguard Group, Inc.	SELL	32.32	Ordinary	(508)	(508)
27-Jun-2018	The Vanguard Group, Inc.	BUY	32.52	Ordinary	28,666	28,666
27-Jun-2018	The Vanguard Group, Inc.	SELL	32.60	Ordinary	(221)	(221)
29-Jun-2018	The Vanguard Group, Inc.	BUY	32.93	Ordinary	27,407	27,407
3-Jul-2018	The Vanguard Group, Inc.	BUY	32.90	Ordinary	34,990	34,990
3-Jul-2018	The Vanguard Group, Inc.	BUY	32.90	Ordinary	1,125	1,125
4-Jul-2018	The Vanguard Group, Inc.	BUY	32.47	Ordinary	1,852	1,852
5-Jul-2018	The Vanguard Group, Inc.	BUY	32.56	Ordinary	852	852
6-Jul-2018	The Vanguard Group, Inc.	BUY	32.20	Ordinary	2,700	2,700
6-Jul-2018	The Vanguard Group, Inc.	BUY	32.48	Ordinary	1,736	1,736
6-Jul-2018	The Vanguard Group, Inc.	BUY	32.07	Ordinary	1,510	1,510
10-Jul-2018	The Vanguard Group, Inc.	BUY	31.13	Ordinary	419	419
11-Jul-2018	The Vanguard Group, Inc.	BUY	31.13	Ordinary	519	519
12-Jul-2018	The Vanguard Group, Inc.	SELL	31.20	Ordinary	(1,408)	(1,408)
12-Jul-2018	The Vanguard Group, Inc.	SELL	31.10	Ordinary	(170)	(170)
12-Jul-2018	The Vanguard Group, Inc.	SELL	31.14	Ordinary	(4,176)	(4,176)
13-Jul-2018	The Vanguard Group, Inc.	SELL	30.83	Ordinary	(6,986)	(6,986)
17-Jul-2018	The Vanguard Group, Inc.	BUY	30.96	Ordinary	4,356	4,356
17-Jul-2018	The Vanguard Group, Inc.	BUY	30.66	Ordinary	162	162

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
18-Jul-2018	The Vanguard Group, Inc.	SELL	30.69	Ordinary	(2,228)	(2,228)
18-Jul-2018	The Vanguard Group, Inc.	BUY	30.65	Ordinary	240	240
20-Jul-2018	The Vanguard Group, Inc.	BUY	30.98	Ordinary	2,250	2,250
20-Jul-2018	The Vanguard Group, Inc.	SELL	31.02	Ordinary	(4,332)	(4,332)
20-Jul-2018	The Vanguard Group, Inc.	BUY	31.02	Ordinary	1,685	1,685
23-Jul-2018	The Vanguard Group, Inc.	SELL	30.76	Ordinary	(822)	(822)
24-Jul-2018	The Vanguard Group, Inc.	BUY	31.05	Ordinary	1,685	1,685
25-Jul-2018	The Vanguard Group, Inc.	SELL	31.34	Ordinary	(822)	(822)
25-Jul-2018	The Vanguard Group, Inc.	SELL	31.34	Ordinary	(4,110)	(4,110)
25-Jul-2018	The Vanguard Group, Inc.	SELL	31.34	Ordinary	(548)	(548)
25-Jul-2018	The Vanguard Group, Inc.	SELL	31.22	Ordinary	(205)	(205)
27-Jul-2018	The Vanguard Group, Inc.	SELL	32.01	Ordinary	(1,394)	(1,394)
30-Jul-2018	The Vanguard Group, Inc.	SELL	32.20	Ordinary	(1,268)	(1,268)
31-Jul-2018	The Vanguard Group, Inc.	BUY	32.56	Ordinary	100	100
1-Aug-2018	The Vanguard Group, Inc.	BUY	32.71	Ordinary	40,971	40,971
1-Aug-2018	The Vanguard Group, Inc.	SELL	32.57	Ordinary	(166)	(166)
2-Aug-2018	The Vanguard Group, Inc.	SELL	32.77	Ordinary	(2,740)	(2,740)
3-Aug-2018	The Vanguard Group, Inc.	SELL	32.84	Ordinary	(1,035)	(1,035)
3-Aug-2018	The Vanguard Group, Inc.	BUY	32.84	Ordinary	222	222
10-Aug-2018	The Vanguard Group, Inc.	SELL	33.13	Ordinary	(5,664)	(5,664)
10-Aug-2018	The Vanguard Group, Inc.	SELL	33.11	Ordinary	(4,011)	(4,011)
13-Aug-2018	The Vanguard Group, Inc.	SELL	33.06	Ordinary	(2,449)	(2,449)
14-Aug-2018	The Vanguard Group, Inc.	BUY	33.13	Ordinary	20,756	20,756
15-Aug-2018	The Vanguard Group, Inc.	SELL	32.98	Ordinary	(2,832)	(2,832)
16-Aug-2018	The Vanguard Group, Inc.	BUY	33.15	Ordinary	20,802	20,802
16-Aug-2018	The Vanguard Group, Inc.	BUY	33.24	Ordinary	564	564
16-Aug-2018	The Vanguard Group, Inc.	SELL	33.23	Ordinary	(4,714)	(4,714)
17-Aug-2018	The Vanguard Group, Inc.	BUY	32.97	Ordinary	1,575	1,575
17-Aug-2018	The Vanguard Group, Inc.	BUY	33.21	Ordinary	4,301	4,301
20-Aug-2018	The Vanguard Group, Inc.	BUY	33.29	Ordinary	33,038	33,038
21-Aug-2018	The Vanguard Group, Inc.	BUY	32.84	Ordinary	361	361
21-Aug-2018	The Vanguard Group, Inc.	BUY	32.84	Ordinary	198	198
24-Aug-2018	The Vanguard Group, Inc.	BUY	33.07	Ordinary	2,475	2,475
31-Aug-2018	The Vanguard Group, Inc.	BUY	30.24	Ordinary	2,952	2,952
31-Aug-2018	The Vanguard Group, Inc.	BUY	30.28	Ordinary	6,550	6,550
5-Sep-2018	The Vanguard Group, Inc.	SELL	30.00	Ordinary	(181)	(181)
5-Sep-2018	The Vanguard Group, Inc.	SELL	30.15	Ordinary	(258)	(258)
7-Sep-2018	The Vanguard Group, Inc.	BUY	29.79	Ordinary	3,624	3,624
7-Sep-2018	The Vanguard Group, Inc.	BUY	29.79	Ordinary	1,332	1,332
7-Sep-2018	The Vanguard Group, Inc.	SELL	29.75	Ordinary	(4,462)	(4,462)
10-Sep-2018	The Vanguard Group, Inc.	BUY	29.09	Ordinary	397	397
12-Sep-2018	The Vanguard Group, Inc.	BUY	29.73	Ordinary	1,998	1,998
12-Sep-2018	The Vanguard Group, Inc.	SELL	29.72	Ordinary	(17,048)	(17,048)
17-Sep-2018	The Vanguard Group, Inc.	BUY	29.69	Ordinary	2,147	2,147
18-Sep-2018	The Vanguard Group, Inc.	BUY	29.48	Ordinary	222	222
21-Sep-2018	The Vanguard Group, Inc.	SELL	29.33	Ordinary	(3,266)	(3,266)
21-Sep-2018	The Vanguard Group, Inc.	BUY	29.48	Ordinary	1,755	1,755
21-Sep-2018	The Vanguard Group, Inc.	SELL	29.33	Ordinary	(724)	(724)
26-Sep-2018	The Vanguard Group, Inc.	BUY	29.54	Ordinary	3,480	3,480
26-Sep-2018	The Vanguard Group, Inc.	BUY	29.54	Ordinary	2,784	2,784
26-Sep-2018	The Vanguard Group, Inc.	BUY	29.54	Ordinary	1,392	1,392
1-Oct-2018	The Vanguard Group, Inc.	BUY	29.52	Ordinary	2,088	2,088
1-Oct-2018	The Vanguard Group, Inc.	SELL	29.57	Ordinary	(6,550)	(6,550)
2-Oct-2018	The Vanguard Group, Inc.	BUY	29.57	Ordinary	45,719	45,719
2-Oct-2018	The Vanguard Group, Inc.	BUY	29.51	Ordinary	5,568	5,568
2-Oct-2018	The Vanguard Group, Inc.	SELL	29.84	Ordinary	(183)	(183)
2-Oct-2018	The Vanguard Group, Inc.	SELL	29.51	Ordinary	(475)	(475)
3-Oct-2018	The Vanguard Group, Inc.	BUY	29.98	Ordinary	2,088	2,088
3-Oct-2018	The Vanguard Group, Inc.	BUY	29.98	Ordinary	1,944	1,944
9-Oct-2018	The Vanguard Group, Inc.	BUY	29.95	Ordinary	5,508	5,508
11-Oct-2018	The Vanguard Group, Inc.	BUY	29.30	Ordinary	1,716	1,716
15-Oct-2018	The Vanguard Group, Inc.	BUY	29.33	Ordinary	2,860	2,860
16-Oct-2018	The Vanguard Group, Inc.	BUY	29.87	Ordinary	81	81
18-Oct-2018	The Vanguard Group, Inc.	SELL	30.31	Ordinary	(162)	(162)
19-Oct-2018	The Vanguard Group, Inc.	BUY	30.10	Ordinary	1,716	1,716
19-Oct-2018	The Vanguard Group, Inc.	BUY	30.10	Ordinary	2,088	2,088
22-Oct-2018	The Vanguard Group, Inc.	BUY	29.43	Ordinary	349	349
23-Oct-2018	The Vanguard Group, Inc.	BUY	28.77	Ordinary	1,629	1,629

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
24-Oct-2018	The Vanguard Group, Inc.	BUY	28.43	Ordinary	26,649	26,649
25-Oct-2018	The Vanguard Group, Inc.	BUY	27.74	Ordinary	1,740	1,740
26-Oct-2018	The Vanguard Group, Inc.	BUY	27.63	Ordinary	27,352	27,352
26-Oct-2018	The Vanguard Group, Inc.	BUY	27.54	Ordinary	27,798	27,798
26-Oct-2018	The Vanguard Group, Inc.	BUY	27.63	Ordinary	11,031	11,031
26-Oct-2018	The Vanguard Group, Inc.	BUY	27.54	Ordinary	329	329
26-Oct-2018	The Vanguard Group, Inc.	BUY	27.63	Ordinary	429	429
30-Oct-2018	The Vanguard Group, Inc.	BUY	27.40	Ordinary	4,828	4,828
31-Oct-2018	The Vanguard Group, Inc.	BUY	28.26	Ordinary	2,436	2,436
1-Nov-2018	The Vanguard Group, Inc.	BUY	28.06	Ordinary	3,480	3,480
1-Nov-2018	The Vanguard Group, Inc.	SELL	27.97	Ordinary	(17,088)	(17,088)
2-Nov-2018	The Vanguard Group, Inc.	SELL	27.60	Ordinary	(5,864)	(5,864)
5-Nov-2018	The Vanguard Group, Inc.	SELL	27.31	Ordinary	(1,962)	(1,962)
6-Nov-2018	The Vanguard Group, Inc.	BUY	27.19	Ordinary	2,807	2,807
7-Nov-2018	The Vanguard Group, Inc.	BUY	27.20	Ordinary	2,784	2,784
9-Nov-2018	The Vanguard Group, Inc.	SELL	27.11	Ordinary	(533)	(533)
12-Nov-2018	The Vanguard Group, Inc.	BUY	26.77	Ordinary	2,088	2,088
13-Nov-2018	The Vanguard Group, Inc.	BUY	27.02	Ordinary	497	497
13-Nov-2018	The Vanguard Group, Inc.	BUY	27.06	Ordinary	1,272	1,272
14-Nov-2018	The Vanguard Group, Inc.	BUY	26.79	Ordinary	2,088	2,088
14-Nov-2018	The Vanguard Group, Inc.	BUY	26.79	Ordinary	2,784	2,784
14-Nov-2018	The Vanguard Group, Inc.	SELL	26.97	Ordinary	(1,558)	(1,558)
15-Nov-2018	The Vanguard Group, Inc.	BUY	26.72	Ordinary	35,848	35,848
15-Nov-2018	The Vanguard Group, Inc.	BUY	27.03	Ordinary	2,176	2,176
15-Nov-2018	The Vanguard Group, Inc.	BUY	27.03	Ordinary	190	190
19-Nov-2018	The Vanguard Group, Inc.	BUY	26.40	Ordinary	907	907
21-Nov-2018	The Vanguard Group, Inc.	BUY	26.43	Ordinary	2,784	2,784
28-Nov-2018	The Vanguard Group, Inc.	BUY	27.45	Ordinary	286	286
28-Nov-2018	The Vanguard Group, Inc.	BUY	27.45	Ordinary	1,716	1,716
28-Nov-2018	The Vanguard Group, Inc.	BUY	27.45	Ordinary	1,740	1,740
28-Nov-2018	The Vanguard Group, Inc.	BUY	27.45	Ordinary	2,268	2,268
30-Nov-2018	The Vanguard Group, Inc.	BUY	27.50	Ordinary	27,660	27,660
30-Nov-2018	The Vanguard Group, Inc.	BUY	27.61	Ordinary	173	173
30-Nov-2018	The Vanguard Group, Inc.	SELL	27.54	Ordinary	(7,432)	(7,432)
3-Dec-2018	The Vanguard Group, Inc.	BUY	27.91	Ordinary	346	346
4-Dec-2018	The Vanguard Group, Inc.	BUY	27.19	Ordinary	2,176	2,176
4-Dec-2018	The Vanguard Group, Inc.	BUY	27.19	Ordinary	2,784	2,784
4-Dec-2018	The Vanguard Group, Inc.	BUY	27.49	Ordinary	2,635	2,635
5-Dec-2018	The Vanguard Group, Inc.	BUY	27.40	Ordinary	52,058	52,058
5-Dec-2018	The Vanguard Group, Inc.	BUY	27.39	Ordinary	17,610	17,610
5-Dec-2018	The Vanguard Group, Inc.	BUY	27.51	Ordinary	1,302	1,302
6-Dec-2018	The Vanguard Group, Inc.	BUY	27.66	Ordinary	1,632	1,632
6-Dec-2018	The Vanguard Group, Inc.	BUY	27.55	Ordinary	2,477	2,477
6-Dec-2018	The Vanguard Group, Inc.	BUY	27.55	Ordinary	1,758	1,758
6-Dec-2018	The Vanguard Group, Inc.	SELL	27.55	Ordinary	(284)	(284)
7-Dec-2018	The Vanguard Group, Inc.	BUY	26.94	Ordinary	2,784	2,784
7-Dec-2018	The Vanguard Group, Inc.	BUY	26.94	Ordinary	2,436	2,436
7-Dec-2018	The Vanguard Group, Inc.	BUY	27.57	Ordinary	620	620
7-Dec-2018	The Vanguard Group, Inc.	BUY	27.57	Ordinary	3,457	3,457
10-Dec-2018	The Vanguard Group, Inc.	BUY	26.83	Ordinary	1,396	1,396
11-Dec-2018	The Vanguard Group, Inc.	BUY	26.53	Ordinary	2,088	2,088
11-Dec-2018	The Vanguard Group, Inc.	BUY	26.53	Ordinary	2,784	2,784
12-Dec-2018	The Vanguard Group, Inc.	BUY	27.07	Ordinary	37,248	37,248
12-Dec-2018	The Vanguard Group, Inc.	BUY	27.03	Ordinary	2,088	2,088
12-Dec-2018	The Vanguard Group, Inc.	BUY	27.03	Ordinary	5,916	5,916
12-Dec-2018	The Vanguard Group, Inc.	BUY	27.03	Ordinary	2,088	2,088
12-Dec-2018	The Vanguard Group, Inc.	SELL	26.77	Ordinary	(206)	(206)
12-Dec-2018	The Vanguard Group, Inc.	BUY	27.03	Ordinary	1,296	1,296
13-Dec-2018	The Vanguard Group, Inc.	BUY	27.02	Ordinary	2,268	2,268
13-Dec-2018	The Vanguard Group, Inc.	BUY	27.02	Ordinary	320	320
14-Dec-2018	The Vanguard Group, Inc.	BUY	26.72	Ordinary	2,088	2,088
14-Dec-2018	The Vanguard Group, Inc.	BUY	26.72	Ordinary	972	972
17-Dec-2018	The Vanguard Group, Inc.	BUY	26.86	Ordinary	4,176	4,176
17-Dec-2018	The Vanguard Group, Inc.	BUY	26.86	Ordinary	3,240	3,240
20-Dec-2018	The Vanguard Group, Inc.	BUY	25.17	Ordinary	2,784	2,784
20-Dec-2018	The Vanguard Group, Inc.	SELL	25.34	Ordinary	(5,477)	(5,477)
20-Dec-2018	The Vanguard Group, Inc.	SELL	25.34	Ordinary	(9,693)	(9,693)
20-Dec-2018	The Vanguard Group, Inc.	BUY	25.34	Ordinary	2,013	2,013

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	The Vanguard Group, Inc.	SELL	24.90	Ordinary	(5,846)	(5,846)
21-Dec-2018	The Vanguard Group, Inc.	SELL	24.90	Ordinary	(59,622)	(59,622)
21-Dec-2018	The Vanguard Group, Inc.	SELL	24.90	Ordinary	(217)	(217)
21-Dec-2018	The Vanguard Group, Inc.	BUY	24.90	Ordinary	3,293	3,293
21-Dec-2018	The Vanguard Group, Inc.	SELL	24.90	Ordinary	(108)	(108)
24-Dec-2018	The Vanguard Group, Inc.	BUY	24.99	Ordinary	5,584	5,584
24-Dec-2018	The Vanguard Group, Inc.	BUY	24.99	Ordinary	3,490	3,490
26-Dec-2018	The Vanguard Group, Inc.	BUY	25.55	Ordinary	2,094	2,094
27-Dec-2018	The Vanguard Group, Inc.	BUY	25.51	Ordinary	1,265	1,265
27-Dec-2018	The Vanguard Group, Inc.	BUY	25.51	Ordinary	5,235	5,235
27-Dec-2018	The Vanguard Group, Inc.	BUY	25.51	Ordinary	1,047	1,047
27-Dec-2018	The Vanguard Group, Inc.	BUY	25.51	Ordinary	1,745	1,745
27-Dec-2018	The Vanguard Group, Inc.	BUY	25.51	Ordinary	346	346
28-Dec-2018	The Vanguard Group, Inc.	BUY	25.65	Ordinary	176	176
31-Dec-2018	The Vanguard Group, Inc.	BUY	25.47	Ordinary	6,072	6,072
2-Jan-2019	The Vanguard Group, Inc.	BUY	25.45	Ordinary	4,554	4,554
2-Jan-2019	The Vanguard Group, Inc.	BUY	25.45	Ordinary	1,771	1,771
2-Jan-2019	The Vanguard Group, Inc.	BUY	25.44	Ordinary	399	399
2-Jan-2019	The Vanguard Group, Inc.	BUY	25.45	Ordinary	2,094	2,094
2-Jan-2019	The Vanguard Group, Inc.	BUY	25.45	Ordinary	2,443	2,443
2-Jan-2019	The Vanguard Group, Inc.	BUY	25.45	Ordinary	376	376
2-Jan-2019	The Vanguard Group, Inc.	BUY	25.17	Ordinary	1,681	1,681
3-Jan-2019	The Vanguard Group, Inc.	BUY	25.19	Ordinary	1,745	1,745
3-Jan-2019	The Vanguard Group, Inc.	BUY	25.19	Ordinary	376	376
7-Jan-2019	The Vanguard Group, Inc.	BUY	25.98	Ordinary	698	698
8-Jan-2019	The Vanguard Group, Inc.	SELL	26.05	Ordinary	(217)	(217)
8-Jan-2019	The Vanguard Group, Inc.	BUY	26.27	Ordinary	865	865
8-Jan-2019	The Vanguard Group, Inc.	SELL	26.22	Ordinary	(5,438)	(5,438)
10-Jan-2019	The Vanguard Group, Inc.	BUY	26.64	Ordinary	4,048	4,048
10-Jan-2019	The Vanguard Group, Inc.	BUY	26.64	Ordinary	752	752
10-Jan-2019	The Vanguard Group, Inc.	SELL	26.35	Ordinary	(5,326)	(5,326)
10-Jan-2019	The Vanguard Group, Inc.	BUY	26.51	Ordinary	1,344	1,344
11-Jan-2019	The Vanguard Group, Inc.	BUY	26.68	Ordinary	1,518	1,518
11-Jan-2019	The Vanguard Group, Inc.	BUY	26.68	Ordinary	346	346
11-Jan-2019	The Vanguard Group, Inc.	BUY	26.26	Ordinary	592	592
15-Jan-2019	The Vanguard Group, Inc.	BUY	26.37	Ordinary	10,996	10,996
16-Jan-2019	The Vanguard Group, Inc.	BUY	26.60	Ordinary	3,771	3,771
17-Jan-2019	The Vanguard Group, Inc.	SELL	26.53	Ordinary	(2,142)	(2,142)
17-Jan-2019	The Vanguard Group, Inc.	BUY	26.63	Ordinary	4,010	4,010
17-Jan-2019	The Vanguard Group, Inc.	BUY	26.40	Ordinary	448	448
17-Jan-2019	The Vanguard Group, Inc.	SELL	26.40	Ordinary	(2,045)	(2,045)
22-Jan-2019	The Vanguard Group, Inc.	SELL	26.48	Ordinary	(2,142)	(2,142)
22-Jan-2019	The Vanguard Group, Inc.	BUY	26.58	Ordinary	85	85
23-Jan-2019	The Vanguard Group, Inc.	BUY	26.39	Ordinary	31,768	31,768
23-Jan-2019	The Vanguard Group, Inc.	SELL	26.27	Ordinary	(4,641)	(4,641)
23-Jan-2019	The Vanguard Group, Inc.	BUY	26.33	Ordinary	450	450
24-Jan-2019	The Vanguard Group, Inc.	SELL	26.72	Ordinary	(4,641)	(4,641)
24-Jan-2019	The Vanguard Group, Inc.	BUY	26.59	Ordinary	703	703
24-Jan-2019	The Vanguard Group, Inc.	BUY	26.66	Ordinary	3,165	3,165
25-Jan-2019	The Vanguard Group, Inc.	BUY	26.66	Ordinary	360	360
28-Jan-2019	The Vanguard Group, Inc.	SELL	26.58	Ordinary	(2,094)	(2,094)
29-Jan-2019	The Vanguard Group, Inc.	SELL	26.67	Ordinary	(2,856)	(2,856)
29-Jan-2019	The Vanguard Group, Inc.	SELL	26.67	Ordinary	(6,783)	(6,783)
29-Jan-2019	The Vanguard Group, Inc.	SELL	26.67	Ordinary	(2,856)	(2,856)
29-Jan-2019	The Vanguard Group, Inc.	SELL	26.66	Ordinary	(209)	(209)
29-Jan-2019	The Vanguard Group, Inc.	SELL	26.67	Ordinary	(1,396)	(1,396)
30-Jan-2019	The Vanguard Group, Inc.	BUY	27.04	Ordinary	1,771	1,771
30-Jan-2019	The Vanguard Group, Inc.	SELL	26.66	Ordinary	(13,711)	(13,711)
30-Jan-2019	The Vanguard Group, Inc.	SELL	27.04	Ordinary	(2,094)	(2,094)
30-Jan-2019	The Vanguard Group, Inc.	SELL	26.95	Ordinary	(5,235)	(5,235)
30-Jan-2019	The Vanguard Group, Inc.	BUY	26.95	Ordinary	7,197	7,197
31-Jan-2019	The Vanguard Group, Inc.	BUY	26.96	Ordinary	10,508	10,508
31-Jan-2019	The Vanguard Group, Inc.	SELL	26.89	Ordinary	(5,933)	(5,933)
31-Jan-2019	The Vanguard Group, Inc.	BUY	26.84	Ordinary	162	162
31-Jan-2019	The Vanguard Group, Inc.	BUY	26.96	Ordinary	5,002	5,002
4-Feb-2019	The Vanguard Group, Inc.	BUY	27.44	Ordinary	2,127	2,127
5-Feb-2019	The Vanguard Group, Inc.	BUY	27.70	Ordinary	2,783	2,783
5-Feb-2019	The Vanguard Group, Inc.	BUY	27.85	Ordinary	685	685

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7-Feb-2019	The Vanguard Group, Inc.	SELL	27.36	Ordinary	(2,184)	(2,184)
7-Feb-2019	The Vanguard Group, Inc.	BUY	27.36	Ordinary	5,060	5,060
7-Feb-2019	The Vanguard Group, Inc.	SELL	27.36	Ordinary	(1,396)	(1,396)
7-Feb-2019	The Vanguard Group, Inc.	SELL	27.36	Ordinary	(1,396)	(1,396)
7-Feb-2019	The Vanguard Group, Inc.	SELL	27.46	Ordinary	(1,780)	(1,780)
8-Feb-2019	The Vanguard Group, Inc.	SELL	27.30	Ordinary	(4,537)	(4,537)
8-Feb-2019	The Vanguard Group, Inc.	BUY	27.16	Ordinary	5,103	5,103
8-Feb-2019	The Vanguard Group, Inc.	BUY	27.29	Ordinary	3,291	3,291
11-Feb-2019	The Vanguard Group, Inc.	SELL	27.30	Ordinary	(3,141)	(3,141)
11-Feb-2019	The Vanguard Group, Inc.	BUY	27.23	Ordinary	5,204	5,204
12-Feb-2019	The Vanguard Group, Inc.	SELL	27.67	Ordinary	(13,558)	(13,558)
13-Feb-2019	The Vanguard Group, Inc.	SELL	27.52	Ordinary	(2,094)	(2,094)
18-Feb-2019	The Vanguard Group, Inc.	BUY	28.23	Ordinary	1,268	1,268
20-Feb-2019	The Vanguard Group, Inc.	BUY	28.14	Ordinary	13,836	13,836
20-Feb-2019	The Vanguard Group, Inc.	BUY	27.80	Ordinary	4,118	4,118
21-Feb-2019	The Vanguard Group, Inc.	SELL	27.66	Ordinary	(1,745)	(1,745)
21-Feb-2019	The Vanguard Group, Inc.	BUY	27.65	Ordinary	391	391
22-Feb-2019	The Vanguard Group, Inc.	BUY	27.89	Ordinary	1,810	1,810
26-Feb-2019	The Vanguard Group, Inc.	BUY	28.87	Ordinary	1,785	1,785
27-Feb-2019	The Vanguard Group, Inc.	BUY	28.83	Ordinary	376	376
27-Feb-2019	The Vanguard Group, Inc.	BUY	28.83	Ordinary	162	162
28-Feb-2019	The Vanguard Group, Inc.	SELL	28.60	Ordinary	(7,320)	(7,320)
1-Mar-2019	The Vanguard Group, Inc.	SELL	27.22	Ordinary	(4,895)	(4,895)
1-Mar-2019	The Vanguard Group, Inc.	SELL	27.22	Ordinary	(1,213)	(1,213)
1-Mar-2019	The Vanguard Group, Inc.	BUY	27.22	Ordinary	245	245
4-Mar-2019	The Vanguard Group, Inc.	SELL	27.40	Ordinary	(5,164)	(5,164)
5-Mar-2019	The Vanguard Group, Inc.	BUY	27.57	Ordinary	2,142	2,142
5-Mar-2019	The Vanguard Group, Inc.	SELL	27.58	Ordinary	(1,293)	(1,293)
6-Mar-2019	The Vanguard Group, Inc.	BUY	28.19	Ordinary	360	360
8-Mar-2019	The Vanguard Group, Inc.	BUY	27.66	Ordinary	1,785	1,785
8-Mar-2019	The Vanguard Group, Inc.	BUY	27.66	Ordinary	749	749
8-Mar-2019	The Vanguard Group, Inc.	BUY	27.66	Ordinary	960	960
11-Mar-2019	The Vanguard Group, Inc.	BUY	27.59	Ordinary	4,420	4,420
11-Mar-2019	The Vanguard Group, Inc.	BUY	27.55	Ordinary	162	162
11-Mar-2019	The Vanguard Group, Inc.	SELL	27.50	Ordinary	(11,027)	(11,027)
12-Mar-2019	The Vanguard Group, Inc.	SELL	27.35	Ordinary	(1,297)	(1,297)
13-Mar-2019	The Vanguard Group, Inc.	SELL	27.21	Ordinary	(51,362)	(51,362)
13-Mar-2019	The Vanguard Group, Inc.	SELL	27.21	Ordinary	(862)	(862)
13-Mar-2019	The Vanguard Group, Inc.	SELL	27.21	Ordinary	(1,571)	(1,571)
15-Mar-2019	The Vanguard Group, Inc.	BUY	27.81	Ordinary	6,363	6,363
15-Mar-2019	The Vanguard Group, Inc.	BUY	27.79	Ordinary	113	113
15-Mar-2019	The Vanguard Group, Inc.	SELL	27.79	Ordinary	(676)	(676)
18-Mar-2019	The Vanguard Group, Inc.	BUY	28.58	Ordinary	3,542	3,542
19-Mar-2019	The Vanguard Group, Inc.	BUY	27.54	Ordinary	1,839	1,839
19-Mar-2019	The Vanguard Group, Inc.	BUY	27.54	Ordinary	71	71
20-Mar-2019	The Vanguard Group, Inc.	BUY	26.63	Ordinary	1,071	1,071
22-Mar-2019	The Vanguard Group, Inc.	BUY	26.66	Ordinary	4,507	4,507
26-Mar-2019	The Vanguard Group, Inc.	BUY	25.84	Ordinary	35,636	35,636
27-Mar-2019	The Vanguard Group, Inc.	SELL	25.84	Ordinary	(214)	(214)
27-Mar-2019	The Vanguard Group, Inc.	BUY	25.58	Ordinary	436	436
27-Mar-2019	The Vanguard Group, Inc.	SELL	25.64	Ordinary	(424)	(424)
28-Mar-2019	The Vanguard Group, Inc.	SELL	26.00	Ordinary	(1,353)	(1,353)
29-Mar-2019	The Vanguard Group, Inc.	BUY	26.21	Ordinary	162	162
29-Mar-2019	The Vanguard Group, Inc.	SELL	26.21	Ordinary	(2,938)	(2,938)
1-Apr-2019	The Vanguard Group, Inc.	BUY	26.25	Ordinary	1,428	1,428
1-Apr-2019	The Vanguard Group, Inc.	BUY	26.25	Ordinary	436	436
2-Apr-2019	The Vanguard Group, Inc.	BUY	26.43	Ordinary	49,171	49,171
4-Apr-2019	The Vanguard Group, Inc.	BUY	26.50	Ordinary	533	533
4-Apr-2019	The Vanguard Group, Inc.	SELL	26.50	Ordinary	(1,992)	(1,992)
5-Apr-2019	The Vanguard Group, Inc.	BUY	26.80	Ordinary	5,060	5,060
5-Apr-2019	The Vanguard Group, Inc.	BUY	26.80	Ordinary	436	436
8-Apr-2019	The Vanguard Group, Inc.	BUY	26.91	Ordinary	436	436
9-Apr-2019	The Vanguard Group, Inc.	SELL	27.03	Ordinary	(1,548)	(1,548)
10-Apr-2019	The Vanguard Group, Inc.	BUY	27.16	Ordinary	6,263	6,263
12-Apr-2019	The Vanguard Group, Inc.	BUY	27.20	Ordinary	475	475
16-Apr-2019	The Vanguard Group, Inc.	SELL	26.92	Ordinary	(28,309)	(28,309)
16-Apr-2019	The Vanguard Group, Inc.	BUY	26.65	Ordinary	406	406
16-Apr-2019	The Vanguard Group, Inc.	BUY	26.66	Ordinary	162	162

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17-Apr-2019	The Vanguard Group, Inc.	SELL	26.65	Ordinary	(366)	(366)
18-Apr-2019	The Vanguard Group, Inc.	BUY	27.36	Ordinary	3,282	3,282
23-Apr-2019	The Vanguard Group, Inc.	BUY	27.88	Ordinary	4,554	4,554
23-Apr-2019	The Vanguard Group, Inc.	SELL	27.81	Ordinary	(1,430)	(1,430)
24-Apr-2019	The Vanguard Group, Inc.	SELL	27.45	Ordinary	(5,124)	(5,124)
26-Apr-2019	The Vanguard Group, Inc.	BUY	27.16	Ordinary	1,785	1,785
26-Apr-2019	The Vanguard Group, Inc.	SELL	27.64	Ordinary	(46)	(46)
29-Apr-2019	The Vanguard Group, Inc.	SELL	27.44	Ordinary	(650)	(650)
29-Apr-2019	The Vanguard Group, Inc.	SELL	27.44	Ordinary	(4,603)	(4,603)
29-Apr-2019	The Vanguard Group, Inc.	SELL	27.44	Ordinary	(23,055)	(23,055)
29-Apr-2019	The Vanguard Group, Inc.	SELL	27.44	Ordinary	(1,789)	(1,789)
29-Apr-2019	The Vanguard Group, Inc.	SELL	27.44	Ordinary	(21,033)	(21,033)
30-Apr-2019	The Vanguard Group, Inc.	BUY	27.20	Ordinary	621	621
3-May-2019	The Vanguard Group, Inc.	BUY	26.90	Ordinary	555	555
3-May-2019	The Vanguard Group, Inc.	BUY	26.94	Ordinary	533	533
6-May-2019	The Vanguard Group, Inc.	SELL	26.30	Ordinary	(1,638)	(1,638)
7-May-2019	The Vanguard Group, Inc.	BUY	25.94	Ordinary	33,439	33,439
7-May-2019	The Vanguard Group, Inc.	BUY	25.79	Ordinary	2,500	2,500
7-May-2019	The Vanguard Group, Inc.	BUY	25.94	Ordinary	16,137	16,137
7-May-2019	The Vanguard Group, Inc.	BUY	25.92	Ordinary	533	533
8-May-2019	The Vanguard Group, Inc.	SELL	25.68	Ordinary	(1,638)	(1,638)
8-May-2019	The Vanguard Group, Inc.	BUY	25.68	Ordinary	621	621
8-May-2019	The Vanguard Group, Inc.	BUY	25.74	Ordinary	1,074	1,074
9-May-2019	The Vanguard Group, Inc.	BUY	25.73	Ordinary	2,142	2,142
9-May-2019	The Vanguard Group, Inc.	BUY	25.73	Ordinary	398	398
10-May-2019	The Vanguard Group, Inc.	SELL	26.07	Ordinary	(3,966)	(3,966)
10-May-2019	The Vanguard Group, Inc.	BUY	26.07	Ordinary	329	329
14-May-2019	The Vanguard Group, Inc.	SELL	25.78	Ordinary	(1,638)	(1,638)
14-May-2019	The Vanguard Group, Inc.	BUY	25.78	Ordinary	1,396	1,396
14-May-2019	The Vanguard Group, Inc.	BUY	25.78	Ordinary	199	199
14-May-2019	The Vanguard Group, Inc.	BUY	25.63	Ordinary	162	162
15-May-2019	The Vanguard Group, Inc.	BUY	25.84	Ordinary	3,293	3,293
16-May-2019	The Vanguard Group, Inc.	BUY	26.35	Ordinary	31,346	31,346
16-May-2019	The Vanguard Group, Inc.	BUY	26.45	Ordinary	38,879	38,879
20-May-2019	The Vanguard Group, Inc.	BUY	26.96	Ordinary	2,500	2,500
20-May-2019	The Vanguard Group, Inc.	BUY	26.96	Ordinary	3,469	3,469
21-May-2019	The Vanguard Group, Inc.	BUY	26.94	Ordinary	1,169	1,169
22-May-2019	The Vanguard Group, Inc.	BUY	26.77	Ordinary	1,212	1,212
23-May-2019	The Vanguard Group, Inc.	BUY	26.75	Ordinary	37,479	37,479
24-May-2019	The Vanguard Group, Inc.	BUY	26.47	Ordinary	504	504
28-May-2019	The Vanguard Group, Inc.	BUY	26.94	Ordinary	1,785	1,785
28-May-2019	The Vanguard Group, Inc.	BUY	27.08	Ordinary	5,434	5,434
28-May-2019	The Vanguard Group, Inc.	BUY	27.08	Ordinary	1,079	1,079
29-May-2019	The Vanguard Group, Inc.	BUY	26.92	Ordinary	905	905
29-May-2019	The Vanguard Group, Inc.	SELL	26.97	Ordinary	(217)	(217)
29-May-2019	The Vanguard Group, Inc.	BUY	26.97	Ordinary	1,303	1,303
31-May-2019	The Vanguard Group, Inc.	SELL	26.39	Ordinary	(6,909)	(6,909)
3-Jun-2019	The Vanguard Group, Inc.	BUY	26.41	Ordinary	2,500	2,500
4-Jun-2019	The Vanguard Group, Inc.	BUY	26.20	Ordinary	2,330	2,330
5-Jun-2019	The Vanguard Group, Inc.	SELL	26.16	Ordinary	(1,092)	(1,092)
5-Jun-2019	The Vanguard Group, Inc.	SELL	26.16	Ordinary	(2,184)	(2,184)
5-Jun-2019	The Vanguard Group, Inc.	BUY	26.10	Ordinary	38,796	38,796
5-Jun-2019	The Vanguard Group, Inc.	SELL	26.11	Ordinary	(533)	(533)
6-Jun-2019	The Vanguard Group, Inc.	BUY	26.28	Ordinary	398	398
6-Jun-2019	The Vanguard Group, Inc.	BUY	26.22	Ordinary	162	162
6-Jun-2019	The Vanguard Group, Inc.	SELL	26.22	Ordinary	(8,206)	(8,206)
7-Jun-2019	The Vanguard Group, Inc.	BUY	26.24	Ordinary	398	398
7-Jun-2019	The Vanguard Group, Inc.	BUY	26.24	Ordinary	414	414
7-Jun-2019	The Vanguard Group, Inc.	BUY	26.19	Ordinary	67	67
10-Jun-2019	The Vanguard Group, Inc.	BUY	26.30	Ordinary	3,000	3,000
10-Jun-2019	The Vanguard Group, Inc.	BUY	26.30	Ordinary	621	621
11-Jun-2019	The Vanguard Group, Inc.	SELL	27.10	Ordinary	(1,365)	(1,365)
12-Jun-2019	The Vanguard Group, Inc.	BUY	27.12	Ordinary	3,000	3,000
12-Jun-2019	The Vanguard Group, Inc.	BUY	27.12	Ordinary	4,472	4,472
12-Jun-2019	The Vanguard Group, Inc.	BUY	27.12	Ordinary	241	241
13-Jun-2019	The Vanguard Group, Inc.	BUY	26.43	Ordinary	1,000	1,000
13-Jun-2019	The Vanguard Group, Inc.	SELL	26.55	Ordinary	(14,971)	(14,971)
14-Jun-2019	The Vanguard Group, Inc.	SELL	26.47	Ordinary	(7,258)	(7,258)

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14-Jun-2019	The Vanguard Group, Inc.	SELL	26.46	Ordinary	(819)	(819)
14-Jun-2019	The Vanguard Group, Inc.	BUY	26.46	Ordinary	414	414
14-Jun-2019	The Vanguard Group, Inc.	BUY	26.46	Ordinary	414	414
14-Jun-2019	The Vanguard Group, Inc.	SELL	26.57	Ordinary	(6,798)	(6,798)
17-Jun-2019	The Vanguard Group, Inc.	BUY	26.46	Ordinary	162	162
17-Jun-2019	The Vanguard Group, Inc.	SELL	26.46	Ordinary	(2,028)	(2,028)
18-Jun-2019	The Vanguard Group, Inc.	BUY	26.65	Ordinary	398	398
20-Jun-2019	The Vanguard Group, Inc.	BUY	23.44	Ordinary	2,500	2,500
21-Jun-2019	The Vanguard Group, Inc.	BUY	23.69	Ordinary	1,250	1,250
21-Jun-2019	The Vanguard Group, Inc.	SELL	23.66	Ordinary	(191,382)	(191,382)
21-Jun-2019	The Vanguard Group, Inc.	SELL	23.68	Ordinary	(16,881)	(16,881)
21-Jun-2019	The Vanguard Group, Inc.	SELL	23.66	Ordinary	(60,700)	(60,700)
21-Jun-2019	The Vanguard Group, Inc.	SELL	23.68	Ordinary	(5,352)	(5,352)
21-Jun-2019	The Vanguard Group, Inc.	SELL	23.66	Ordinary	(1,524)	(1,524)
21-Jun-2019	The Vanguard Group, Inc.	SELL	23.68	Ordinary	(136)	(136)
21-Jun-2019	The Vanguard Group, Inc.	SELL	23.66	Ordinary	(502)	(502)
21-Jun-2019	The Vanguard Group, Inc.	SELL	23.68	Ordinary	(46)	(46)
21-Jun-2019	The Vanguard Group, Inc.	SELL	23.66	Ordinary	(1,838)	(1,838)
21-Jun-2019	The Vanguard Group, Inc.	SELL	23.68	Ordinary	(162)	(162)
24-Jun-2019	The Vanguard Group, Inc.	BUY	24.06	Ordinary	2,368	2,368
25-Jun-2019	The Vanguard Group, Inc.	SELL	24.08	Ordinary	(819)	(819)
25-Jun-2019	The Vanguard Group, Inc.	BUY	24.08	Ordinary	1,206	1,206
25-Jun-2019	The Vanguard Group, Inc.	BUY	24.08	Ordinary	1,809	1,809
25-Jun-2019	The Vanguard Group, Inc.	SELL	24.15	Ordinary	(2,501)	(2,501)
26-Jun-2019	The Vanguard Group, Inc.	BUY	24.10	Ordinary	2,412	2,412
26-Jun-2019	The Vanguard Group, Inc.	BUY	24.10	Ordinary	1,407	1,407
26-Jun-2019	The Vanguard Group, Inc.	SELL	23.98	Ordinary	(73,290)	(73,290)
26-Jun-2019	The Vanguard Group, Inc.	BUY	24.11	Ordinary	467	467
26-Jun-2019	The Vanguard Group, Inc.	SELL	23.98	Ordinary	(1,519)	(1,519)
26-Jun-2019	The Vanguard Group, Inc.	BUY	24.11	Ordinary	1,193	1,193
27-Jun-2019	The Vanguard Group, Inc.	SELL	25.00	Ordinary	(149)	(149)
28-Jun-2019	The Vanguard Group, Inc.	BUY	24.79	Ordinary	1,320	1,320
28-Jun-2019	The Vanguard Group, Inc.	BUY	24.75	Ordinary	7,900	7,900
28-Jun-2019	The Vanguard Group, Inc.	SELL	24.75	Ordinary	(156)	(156)
1-Jul-2019	The Vanguard Group, Inc.	BUY	24.95	Ordinary	264	264
2-Jul-2019	The Vanguard Group, Inc.	BUY	25.08	Ordinary	1,809	1,809
2-Jul-2019	The Vanguard Group, Inc.	BUY	25.10	Ordinary	4,606	4,606
4-Jul-2019	The Vanguard Group, Inc.	BUY	24.95	Ordinary	2,213	2,213
5-Jul-2019	The Vanguard Group, Inc.	BUY	25.55	Ordinary	1,428	1,428
9-Jul-2019	The Vanguard Group, Inc.	BUY	25.67	Ordinary	2,010	2,010
9-Jul-2019	The Vanguard Group, Inc.	BUY	25.60	Ordinary	162	162
10-Jul-2019	The Vanguard Group, Inc.	BUY	26.09	Ordinary	730	730
12-Jul-2019	The Vanguard Group, Inc.	SELL	25.72	Ordinary	(3,780)	(3,780)
15-Jul-2019	The Vanguard Group, Inc.	BUY	25.45	Ordinary	2,142	2,142
15-Jul-2019	The Vanguard Group, Inc.	SELL	25.49	Ordinary	(2,687)	(2,687)
17-Jul-2019	The Vanguard Group, Inc.	BUY	25.68	Ordinary	1,407	1,407
17-Jul-2019	The Vanguard Group, Inc.	BUY	25.68	Ordinary	2,010	2,010
17-Jul-2019	The Vanguard Group, Inc.	BUY	25.68	Ordinary	1,005	1,005
19-Jul-2019	The Vanguard Group, Inc.	BUY	25.68	Ordinary	376	376
22-Jul-2019	The Vanguard Group, Inc.	BUY	25.92	Ordinary	2,010	2,010
22-Jul-2019	The Vanguard Group, Inc.	BUY	25.92	Ordinary	1,785	1,785
22-Jul-2019	The Vanguard Group, Inc.	BUY	25.92	Ordinary	1,785	1,785
22-Jul-2019	The Vanguard Group, Inc.	BUY	25.92	Ordinary	376	376
22-Jul-2019	The Vanguard Group, Inc.	SELL	25.91	Ordinary	(4,399)	(4,399)
23-Jul-2019	The Vanguard Group, Inc.	BUY	26.04	Ordinary	2,010	2,010
23-Jul-2019	The Vanguard Group, Inc.	BUY	25.97	Ordinary	960	960
25-Jul-2019	The Vanguard Group, Inc.	BUY	26.26	Ordinary	888	888
26-Jul-2019	The Vanguard Group, Inc.	BUY	26.19	Ordinary	1,809	1,809
26-Jul-2019	The Vanguard Group, Inc.	BUY	26.19	Ordinary	1,480	1,480
26-Jul-2019	The Vanguard Group, Inc.	BUY	26.19	Ordinary	376	376
26-Jul-2019	The Vanguard Group, Inc.	SELL	26.13	Ordinary	(1,092)	(1,092)
26-Jul-2019	The Vanguard Group, Inc.	BUY	26.13	Ordinary	55	55
29-Jul-2019	The Vanguard Group, Inc.	SELL	26.29	Ordinary	(5,301)	(5,301)
30-Jul-2019	The Vanguard Group, Inc.	SELL	26.62	Ordinary	(1,092)	(1,092)
30-Jul-2019	The Vanguard Group, Inc.	SELL	26.33	Ordinary	(443)	(443)
30-Jul-2019	The Vanguard Group, Inc.	BUY	26.62	Ordinary	264	264
30-Jul-2019	The Vanguard Group, Inc.	BUY	26.58	Ordinary	467	467
30-Jul-2019	The Vanguard Group, Inc.	BUY	26.57	Ordinary	3,227	3,227

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
31-Jul-2019	The Vanguard Group, Inc.	BUY	26.90	Ordinary	1,809	1,809
1-Aug-2019	The Vanguard Group, Inc.	BUY	26.99	Ordinary	3,213	3,213
1-Aug-2019	The Vanguard Group, Inc.	SELL	27.05	Ordinary	(9,369)	(9,369)
2-Aug-2019	The Vanguard Group, Inc.	BUY	26.68	Ordinary	1,184	1,184
5-Aug-2019	The Vanguard Group, Inc.	BUY	26.48	Ordinary	2,010	2,010
5-Aug-2019	The Vanguard Group, Inc.	BUY	26.48	Ordinary	1,480	1,480
5-Aug-2019	The Vanguard Group, Inc.	BUY	27.04	Ordinary	759	759
6-Aug-2019	The Vanguard Group, Inc.	BUY	26.56	Ordinary	188	188
6-Aug-2019	The Vanguard Group, Inc.	BUY	26.56	Ordinary	264	264
8-Aug-2019	The Vanguard Group, Inc.	SELL	26.41	Ordinary	(1,365)	(1,365)
8-Aug-2019	The Vanguard Group, Inc.	BUY	26.27	Ordinary	4,285	4,285
8-Aug-2019	The Vanguard Group, Inc.	BUY	26.27	Ordinary	518	518
9-Aug-2019	The Vanguard Group, Inc.	BUY	26.65	Ordinary	564	564
12-Aug-2019	The Vanguard Group, Inc.	BUY	26.59	Ordinary	3,216	3,216
13-Aug-2019	The Vanguard Group, Inc.	SELL	26.44	Ordinary	(1,911)	(1,911)
13-Aug-2019	The Vanguard Group, Inc.	BUY	26.39	Ordinary	27,718	27,718
13-Aug-2019	The Vanguard Group, Inc.	BUY	26.44	Ordinary	376	376
14-Aug-2019	The Vanguard Group, Inc.	BUY	26.60	Ordinary	15,879	15,879
14-Aug-2019	The Vanguard Group, Inc.	BUY	26.75	Ordinary	4,852	4,852
14-Aug-2019	The Vanguard Group, Inc.	BUY	26.75	Ordinary	162	162
14-Aug-2019	The Vanguard Group, Inc.	SELL	26.29	Ordinary	(1,449)	(1,449)
15-Aug-2019	The Vanguard Group, Inc.	SELL	25.93	Ordinary	(1,638)	(1,638)
15-Aug-2019	The Vanguard Group, Inc.	BUY	25.94	Ordinary	1,106	1,106
16-Aug-2019	The Vanguard Group, Inc.	BUY	25.60	Ordinary	729	729
19-Aug-2019	The Vanguard Group, Inc.	BUY	25.90	Ordinary	264	264
19-Aug-2019	The Vanguard Group, Inc.	BUY	25.83	Ordinary	2,637	2,637
19-Aug-2019	The Vanguard Group, Inc.	SELL	25.83	Ordinary	(204)	(204)
20-Aug-2019	The Vanguard Group, Inc.	BUY	26.06	Ordinary	264	264
22-Aug-2019	The Vanguard Group, Inc.	BUY	26.47	Ordinary	4,020	4,020
22-Aug-2019	The Vanguard Group, Inc.	SELL	26.61	Ordinary	(10,716)	(10,716)
23-Aug-2019	The Vanguard Group, Inc.	BUY	26.62	Ordinary	264	264
23-Aug-2019	The Vanguard Group, Inc.	SELL	26.48	Ordinary	(783)	(783)
27-Aug-2019	The Vanguard Group, Inc.	SELL	24.68	Ordinary	(1,398)	(1,398)
29-Aug-2019	The Vanguard Group, Inc.	BUY	24.00	Ordinary	3,884	3,884
2-Sep-2019	The Vanguard Group, Inc.	BUY	24.00	Ordinary	2,466	2,466
5-Sep-2019	The Vanguard Group, Inc.	BUY	24.23	Ordinary	32,991	32,991
6-Sep-2019	The Vanguard Group, Inc.	BUY	24.78	Ordinary	148	148
9-Sep-2019	The Vanguard Group, Inc.	BUY	24.55	Ordinary	2,613	2,613
9-Sep-2019	The Vanguard Group, Inc.	BUY	24.55	Ordinary	918	918
11-Sep-2019	The Vanguard Group, Inc.	BUY	25.19	Ordinary	2,613	2,613
12-Sep-2019	The Vanguard Group, Inc.	BUY	25.08	Ordinary	2,010	2,010
16-Sep-2019	The Vanguard Group, Inc.	BUY	25.34	Ordinary	819	819
16-Sep-2019	The Vanguard Group, Inc.	BUY	25.34	Ordinary	264	264
16-Sep-2019	The Vanguard Group, Inc.	BUY	25.32	Ordinary	1,453	1,453
18-Sep-2019	The Vanguard Group, Inc.	BUY	24.99	Ordinary	1,809	1,809
20-Sep-2019	The Vanguard Group, Inc.	SELL	25.30	Ordinary	(46,699)	(46,699)
20-Sep-2019	The Vanguard Group, Inc.	SELL	25.30	Ordinary	(1,213)	(1,213)
20-Sep-2019	The Vanguard Group, Inc.	SELL	25.30	Ordinary	(1,253)	(1,253)
23-Sep-2019	The Vanguard Group, Inc.	BUY	25.51	Ordinary	1,690	1,690
24-Sep-2019	The Vanguard Group, Inc.	BUY	25.51	Ordinary	3,749	3,749
24-Sep-2019	The Vanguard Group, Inc.	SELL	25.51	Ordinary	(314)	(314)
25-Sep-2019	The Vanguard Group, Inc.	BUY	25.54	Ordinary	1,560	1,560
25-Sep-2019	The Vanguard Group, Inc.	BUY	25.44	Ordinary	3,713	3,713
26-Sep-2019	The Vanguard Group, Inc.	BUY	25.49	Ordinary	5,772	5,772
27-Sep-2019	The Vanguard Group, Inc.	SELL	25.85	Ordinary	(245)	(245)
27-Sep-2019	The Vanguard Group, Inc.	BUY	25.85	Ordinary	1,043	1,043
30-Sep-2019	The Vanguard Group, Inc.	BUY	26.33	Ordinary	360	360
1-Oct-2019	The Vanguard Group, Inc.	BUY	26.32	Ordinary	484	484
1-Oct-2019	The Vanguard Group, Inc.	BUY	26.32	Ordinary	1,236	1,236
2-Oct-2019	The Vanguard Group, Inc.	BUY	25.95	Ordinary	180	180
2-Oct-2019	The Vanguard Group, Inc.	BUY	25.95	Ordinary	292	292
4-Oct-2019	The Vanguard Group, Inc.	BUY	25.98	Ordinary	292	292
8-Oct-2019	The Vanguard Group, Inc.	BUY	25.51	Ordinary	292	292
10-Oct-2019	The Vanguard Group, Inc.	BUY	25.51	Ordinary	1,440	1,440
10-Oct-2019	The Vanguard Group, Inc.	BUY	25.51	Ordinary	4,320	4,320
11-Oct-2019	The Vanguard Group, Inc.	BUY	25.77	Ordinary	1,219	1,219
15-Oct-2019	The Vanguard Group, Inc.	BUY	26.21	Ordinary	1,152	1,152
16-Oct-2019	The Vanguard Group, Inc.	BUY	26.71	Ordinary	360	360

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21-Oct-2019	The Vanguard Group, Inc.	BUY	27.48	Ordinary	360	360
21-Oct-2019	The Vanguard Group, Inc.	BUY	27.41	Ordinary	132	132
21-Oct-2019	The Vanguard Group, Inc.	SELL	27.41	Ordinary	(1,197)	(1,197)
22-Oct-2019	The Vanguard Group, Inc.	SELL	27.37	Ordinary	(1,066)	(1,066)
23-Oct-2019	The Vanguard Group, Inc.	BUY	27.31	Ordinary	1,440	1,440
23-Oct-2019	The Vanguard Group, Inc.	BUY	27.30	Ordinary	45,899	45,899
25-Oct-2019	The Vanguard Group, Inc.	SELL	27.75	Ordinary	(3,240)	(3,240)
25-Oct-2019	The Vanguard Group, Inc.	BUY	27.75	Ordinary	346	346
25-Oct-2019	The Vanguard Group, Inc.	BUY	27.75	Ordinary	438	438
25-Oct-2019	The Vanguard Group, Inc.	BUY	27.69	Ordinary	132	132
25-Oct-2019	The Vanguard Group, Inc.	BUY	27.69	Ordinary	2,994	2,994
25-Oct-2019	The Vanguard Group, Inc.	SELL	27.69	Ordinary	(10)	(10)
28-Oct-2019	The Vanguard Group, Inc.	BUY	28.12	Ordinary	7,749	7,749
29-Oct-2019	The Vanguard Group, Inc.	SELL	27.96	Ordinary	(3,166)	(3,166)
31-Oct-2019	The Vanguard Group, Inc.	SELL	27.27	Ordinary	(3,668)	(3,668)
1-Nov-2019	The Vanguard Group, Inc.	BUY	27.40	Ordinary	35	35
5-Nov-2019	The Vanguard Group, Inc.	BUY	27.89	Ordinary	2,880	2,880
6-Nov-2019	The Vanguard Group, Inc.	BUY	27.63	Ordinary	1,440	1,440
7-Nov-2019	The Vanguard Group, Inc.	BUY	27.52	Ordinary	929	929
8-Nov-2019	The Vanguard Group, Inc.	BUY	28.04	Ordinary	292	292
8-Nov-2019	The Vanguard Group, Inc.	BUY	27.96	Ordinary	999	999
8-Nov-2019	The Vanguard Group, Inc.	BUY	27.96	Ordinary	132	132
11-Nov-2019	The Vanguard Group, Inc.	BUY	28.37	Ordinary	2,016	2,016
13-Nov-2019	The Vanguard Group, Inc.	BUY	28.24	Ordinary	109	109
14-Nov-2019	The Vanguard Group, Inc.	BUY	28.10	Ordinary	1,140	1,140
15-Nov-2019	The Vanguard Group, Inc.	BUY	28.42	Ordinary	1,152	1,152
15-Nov-2019	The Vanguard Group, Inc.	BUY	28.42	Ordinary	292	292
15-Nov-2019	The Vanguard Group, Inc.	BUY	28.40	Ordinary	740	740
18-Nov-2019	The Vanguard Group, Inc.	BUY	28.32	Ordinary	1,584	1,584
18-Nov-2019	The Vanguard Group, Inc.	BUY	28.32	Ordinary	507	507
18-Nov-2019	The Vanguard Group, Inc.	BUY	28.50	Ordinary	569	569
19-Nov-2019	The Vanguard Group, Inc.	BUY	28.32	Ordinary	132	132
21-Nov-2019	The Vanguard Group, Inc.	BUY	27.75	Ordinary	292	292
21-Nov-2019	The Vanguard Group, Inc.	BUY	27.70	Ordinary	104	104
22-Nov-2019	The Vanguard Group, Inc.	BUY	27.84	Ordinary	2,304	2,304
22-Nov-2019	The Vanguard Group, Inc.	SELL	27.99	Ordinary	(299)	(299)
25-Nov-2019	The Vanguard Group, Inc.	BUY	29.88	Ordinary	2,880	2,880
25-Nov-2019	The Vanguard Group, Inc.	BUY	29.79	Ordinary	908	908
26-Nov-2019	The Vanguard Group, Inc.	SELL	33.79	Ordinary	(47)	(47)
26-Nov-2019	The Vanguard Group, Inc.	BUY	33.78	Ordinary	146	146
26-Nov-2019	The Vanguard Group, Inc.	BUY	33.78	Ordinary	6,902	6,902
26-Nov-2019	The Vanguard Group, Inc.	BUY	33.78	Ordinary	4,679	4,679
27-Nov-2019	The Vanguard Group, Inc.	BUY	34.52	Ordinary	169	169
27-Nov-2019	The Vanguard Group, Inc.	BUY	34.48	Ordinary	5,378	5,378
27-Nov-2019	The Vanguard Group, Inc.	BUY	34.48	Ordinary	484	484
29-Nov-2019	The Vanguard Group, Inc.	BUY	34.57	Ordinary	280	280
29-Nov-2019	The Vanguard Group, Inc.	BUY	34.56	Ordinary	132	132
29-Nov-2019	The Vanguard Group, Inc.	BUY	34.56	Ordinary	106	106
2-Dec-2019	The Vanguard Group, Inc.	BUY	34.54	Ordinary	4,284	4,284
3-Dec-2019	The Vanguard Group, Inc.	BUY	34.37	Ordinary	648	648
3-Dec-2019	The Vanguard Group, Inc.	BUY	34.49	Ordinary	132	132
3-Dec-2019	The Vanguard Group, Inc.	BUY	34.49	Ordinary	264	264
3-Dec-2019	The Vanguard Group, Inc.	BUY	34.49	Ordinary	8,288	8,288
4-Dec-2019	The Vanguard Group, Inc.	BUY	34.38	Ordinary	736	736
4-Dec-2019	The Vanguard Group, Inc.	BUY	34.30	Ordinary	381	381
4-Dec-2019	The Vanguard Group, Inc.	BUY	34.30	Ordinary	62	62
6-Dec-2019	The Vanguard Group, Inc.	BUY	34.51	Ordinary	4,256	4,256
9-Dec-2019	The Vanguard Group, Inc.	BUY	34.50	Ordinary	575	575
9-Dec-2019	The Vanguard Group, Inc.	BUY	34.49	Ordinary	1,650	1,650
10-Dec-2019	The Vanguard Group, Inc.	BUY	34.09	Ordinary	132	132
11-Dec-2019	The Vanguard Group, Inc.	BUY	34.09	Ordinary	1,104	1,104
11-Dec-2019	The Vanguard Group, Inc.	BUY	34.09	Ordinary	248	248
11-Dec-2019	The Vanguard Group, Inc.	BUY	34.09	Ordinary	248	248
12-Dec-2019	The Vanguard Group, Inc.	BUY	33.87	Ordinary	1,380	1,380
12-Dec-2019	The Vanguard Group, Inc.	BUY	33.87	Ordinary	657	657
12-Dec-2019	The Vanguard Group, Inc.	BUY	33.75	Ordinary	86	86
13-Dec-2019	The Vanguard Group, Inc.	BUY	34.11	Ordinary	320	320
16-Dec-2019	The Vanguard Group, Inc.	BUY	34.15	Ordinary	228	228

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17-Dec-2019	The Vanguard Group, Inc.	BUY	34.36	Ordinary	1,840	1,840
17-Dec-2019	The Vanguard Group, Inc.	BUY	34.36	Ordinary	1,012	1,012
20-Dec-2019	The Vanguard Group, Inc.	SELL	34.17	Ordinary	(1,547)	(1,547)
20-Dec-2019	The Vanguard Group, Inc.	SELL	34.18	Ordinary	(5,550)	(5,550)
20-Dec-2019	The Vanguard Group, Inc.	SELL	34.18	Ordinary	(2,495)	(2,495)
20-Dec-2019	The Vanguard Group, Inc.	SELL	34.18	Ordinary	(2,303)	(2,303)
20-Dec-2019	The Vanguard Group, Inc.	SELL	34.18	Ordinary	(1,448)	(1,448)
20-Dec-2019	The Vanguard Group, Inc.	SELL	34.18	Ordinary	(2,205)	(2,205)
23-Dec-2019	The Vanguard Group, Inc.	SELL	33.91	Ordinary	(864)	(864)
23-Dec-2019	The Vanguard Group, Inc.	BUY	34.14	Ordinary	4,242	4,242
23-Dec-2019	The Vanguard Group, Inc.	BUY	34.14	Ordinary	909	909
23-Dec-2019	The Vanguard Group, Inc.	BUY	34.14	Ordinary	471	471
24-Dec-2019	The Vanguard Group, Inc.	BUY	34.10	Ordinary	1,818	1,818
26-Dec-2019	The Vanguard Group, Inc.	BUY	34.15	Ordinary	4,545	4,545
27-Dec-2019	The Vanguard Group, Inc.	BUY	34.06	Ordinary	226	226
27-Dec-2019	The Vanguard Group, Inc.	BUY	34.16	Ordinary	847	847
30-Dec-2019	The Vanguard Group, Inc.	BUY	34.06	Ordinary	920	920
30-Dec-2019	The Vanguard Group, Inc.	BUY	34.18	Ordinary	552	552
31-Dec-2019	The Vanguard Group, Inc.	BUY	33.98	Ordinary	7,439	7,439
31-Dec-2019	The Vanguard Group, Inc.	BUY	33.95	Ordinary	132	132
31-Dec-2019	The Vanguard Group, Inc.	BUY	33.95	Ordinary	132	132
2-Jan-2020	The Vanguard Group, Inc.	BUY	34.12	Ordinary	226	226
3-Jan-2020	The Vanguard Group, Inc.	BUY	34.14	Ordinary	8,380	8,380
3-Jan-2020	The Vanguard Group, Inc.	BUY	34.29	Ordinary	226	226
6-Jan-2020	The Vanguard Group, Inc.	BUY	34.47	Ordinary	161	161
6-Jan-2020	The Vanguard Group, Inc.	BUY	34.47	Ordinary	678	678
6-Jan-2020	The Vanguard Group, Inc.	BUY	34.36	Ordinary	764	764
8-Jan-2020	The Vanguard Group, Inc.	BUY	35.80	Ordinary	2,760	2,760
8-Jan-2020	The Vanguard Group, Inc.	BUY	35.70	Ordinary	132	132
8-Jan-2020	The Vanguard Group, Inc.	BUY	35.70	Ordinary	3,996	3,996
9-Jan-2020	The Vanguard Group, Inc.	BUY	35.61	Ordinary	828	828
9-Jan-2020	The Vanguard Group, Inc.	BUY	35.61	Ordinary	5,454	5,454
9-Jan-2020	The Vanguard Group, Inc.	SELL	35.50	Ordinary	(2,077)	(2,077)
9-Jan-2020	The Vanguard Group, Inc.	BUY	35.50	Ordinary	460	460
10-Jan-2020	The Vanguard Group, Inc.	BUY	35.56	Ordinary	322	322
10-Jan-2020	The Vanguard Group, Inc.	BUY	35.70	Ordinary	132	132
13-Jan-2020	The Vanguard Group, Inc.	BUY	35.44	Ordinary	484	484
13-Jan-2020	The Vanguard Group, Inc.	BUY	35.44	Ordinary	132	132
14-Jan-2020	The Vanguard Group, Inc.	BUY	35.58	Ordinary	322	322
14-Jan-2020	The Vanguard Group, Inc.	BUY	35.61	Ordinary	446	446
15-Jan-2020	The Vanguard Group, Inc.	BUY	35.60	Ordinary	2,424	2,424
15-Jan-2020	The Vanguard Group, Inc.	BUY	35.56	Ordinary	132	132
15-Jan-2020	The Vanguard Group, Inc.	BUY	35.56	Ordinary	1,115	1,115
16-Jan-2020	The Vanguard Group, Inc.	BUY	35.71	Ordinary	2,727	2,727
17-Jan-2020	The Vanguard Group, Inc.	BUY	34.97	Ordinary	2,424	2,424
17-Jan-2020	The Vanguard Group, Inc.	BUY	34.97	Ordinary	2,727	2,727
17-Jan-2020	The Vanguard Group, Inc.	BUY	34.97	Ordinary	113	113
17-Jan-2020	The Vanguard Group, Inc.	BUY	34.91	Ordinary	474	474
21-Jan-2020	The Vanguard Group, Inc.	BUY	35.02	Ordinary	3,285	3,285
21-Jan-2020	The Vanguard Group, Inc.	BUY	35.02	Ordinary	339	339
22-Jan-2020	The Vanguard Group, Inc.	BUY	35.12	Ordinary	1,818	1,818
22-Jan-2020	The Vanguard Group, Inc.	BUY	35.20	Ordinary	484	484
12-Apr-2018	Vanguard Investments Australia Ltd.	BUY	31.82	Ordinary	1,339	1,339
12-Apr-2018	Vanguard Investments Australia Ltd.	BUY	31.82	Ordinary	620	620
12-Apr-2018	Vanguard Investments Australia Ltd.	BUY	31.82	Ordinary	4,170	4,170
12-Apr-2018	Vanguard Investments Australia Ltd.	BUY	31.82	Ordinary	6,425	6,425
13-Apr-2018	Vanguard Investments Australia Ltd.	BUY	31.81	Ordinary	7,152	7,152
19-Apr-2018	Vanguard Investments Australia Ltd.	SELL	31.83	Ordinary	(1,599)	(1,599)
19-Apr-2018	Vanguard Investments Australia Ltd.	SELL	31.83	Ordinary	(2,905)	(2,905)
19-Apr-2018	Vanguard Investments Australia Ltd.	BUY	31.83	Ordinary	3,000	3,000
20-Apr-2018	Vanguard Investments Australia Ltd.	BUY	31.78	Ordinary	441	441
27-Apr-2018	Vanguard Investments Australia Ltd.	BUY	30.87	Ordinary	3,944	3,944
4-May-2018	Vanguard Investments Australia Ltd.	BUY	30.63	Ordinary	1,500	1,500
8-May-2018	Vanguard Investments Australia Ltd.	BUY	30.62	Ordinary	5,415	5,415
18-May-2018	Vanguard Investments Australia Ltd.	BUY	30.81	Ordinary	1,750	1,750
22-May-2018	Vanguard Investments Australia Ltd.	BUY	30.10	Ordinary	2,000	2,000
23-May-2018	Vanguard Investments Australia Ltd.	SELL	29.77	Ordinary	(3,104)	(3,104)
29-May-2018	Vanguard Investments Australia Ltd.	BUY	28.54	Ordinary	4,069	4,069

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
31-May-2018	Vanguard Investments Australia Ltd.	BUY	29.42	Ordinary	1,750	1,750
1-Jun-2018	Vanguard Investments Australia Ltd.	BUY	29.81	Ordinary	5,996	5,996
1-Jun-2018	Vanguard Investments Australia Ltd.	BUY	29.81	Ordinary	4,060	4,060
8-Jun-2018	Vanguard Investments Australia Ltd.	BUY	29.35	Ordinary	1,750	1,750
13-Jun-2018	Vanguard Investments Australia Ltd.	SELL	30.57	Ordinary	(3,041)	(3,041)
14-Jun-2018	Vanguard Investments Australia Ltd.	BUY	30.32	Ordinary	2,500	2,500
15-Jun-2018	Vanguard Investments Australia Ltd.	BUY	30.52	Ordinary	9,234	9,234
20-Jun-2018	Vanguard Investments Australia Ltd.	SELL	31.80	Ordinary	(1,966)	(1,966)
29-Jun-2018	Vanguard Investments Australia Ltd.	SELL	32.54	Ordinary	(17,732)	(17,732)
29-Jun-2018	Vanguard Investments Australia Ltd.	BUY	32.71	Ordinary	104	104
3-Jul-2018	Vanguard Investments Australia Ltd.	BUY	33.03	Ordinary	8,564	8,564
5-Jul-2018	Vanguard Investments Australia Ltd.	BUY	32.53	Ordinary	10,608	10,608
6-Jul-2018	Vanguard Investments Australia Ltd.	BUY	32.09	Ordinary	3,072	3,072
6-Jul-2018	Vanguard Investments Australia Ltd.	BUY	32.09	Ordinary	7,567	7,567
6-Jul-2018	Vanguard Investments Australia Ltd.	BUY	32.09	Ordinary	7,931	7,931
6-Jul-2018	Vanguard Investments Australia Ltd.	BUY	32.07	Ordinary	2,169	2,169
9-Jul-2018	Vanguard Investments Australia Ltd.	SELL	31.21	Ordinary	(1,776)	(1,776)
10-Jul-2018	Vanguard Investments Australia Ltd.	BUY	31.13	Ordinary	970	970
16-Jul-2018	Vanguard Investments Australia Ltd.	BUY	31.06	Ordinary	1,446	1,446
16-Jul-2018	Vanguard Investments Australia Ltd.	BUY	31.06	Ordinary	6,342	6,342
17-Jul-2018	Vanguard Investments Australia Ltd.	BUY	30.66	Ordinary	3,979	3,979
18-Jul-2018	Vanguard Investments Australia Ltd.	SELL	30.87	Ordinary	(2,180)	(2,180)
19-Jul-2018	Vanguard Investments Australia Ltd.	BUY	31.28	Ordinary	4,013	4,013
20-Jul-2018	Vanguard Investments Australia Ltd.	BUY	31.02	Ordinary	2,750	2,750
2-Aug-2018	Vanguard Investments Australia Ltd.	BUY	32.64	Ordinary	2,250	2,250
3-Aug-2018	Vanguard Investments Australia Ltd.	BUY	32.84	Ordinary	5,516	5,516
7-Aug-2018	Vanguard Investments Australia Ltd.	BUY	33.10	Ordinary	5,002	5,002
15-Aug-2018	Vanguard Investments Australia Ltd.	BUY	33.13	Ordinary	1,500	1,500
15-Aug-2018	Vanguard Investments Australia Ltd.	BUY	33.13	Ordinary	3,936	3,936
21-Aug-2018	Vanguard Investments Australia Ltd.	BUY	32.84	Ordinary	2,500	2,500
28-Aug-2018	Vanguard Investments Australia Ltd.	BUY	30.68	Ordinary	11,400	11,400
4-Sep-2018	Vanguard Investments Australia Ltd.	BUY	29.74	Ordinary	2,794	2,794
6-Sep-2018	Vanguard Investments Australia Ltd.	BUY	30.19	Ordinary	4,706	4,706
10-Sep-2018	Vanguard Investments Australia Ltd.	BUY	29.09	Ordinary	2,590	2,590
11-Sep-2018	Vanguard Investments Australia Ltd.	SELL	29.70	Ordinary	(2,727)	(2,727)
17-Sep-2018	Vanguard Investments Australia Ltd.	BUY	29.69	Ordinary	2,794	2,794
21-Sep-2018	Vanguard Investments Australia Ltd.	BUY	29.32	Ordinary	4,048	4,048
21-Sep-2018	Vanguard Investments Australia Ltd.	BUY	29.32	Ordinary	3,618	3,618
21-Sep-2018	Vanguard Investments Australia Ltd.	BUY	29.32	Ordinary	10,684	10,684
26-Sep-2018	Vanguard Investments Australia Ltd.	BUY	29.56	Ordinary	1,530	1,530
27-Sep-2018	Vanguard Investments Australia Ltd.	BUY	29.46	Ordinary	4,056	4,056
27-Sep-2018	Vanguard Investments Australia Ltd.	BUY	29.46	Ordinary	8,933	8,933
27-Sep-2018	Vanguard Investments Australia Ltd.	BUY	29.46	Ordinary	6,056	6,056
27-Sep-2018	Vanguard Investments Australia Ltd.	BUY	29.36	Ordinary	19,635	19,635
1-Oct-2018	Vanguard Investments Australia Ltd.	BUY	29.53	Ordinary	2,232	2,232
8-Oct-2018	Vanguard Investments Australia Ltd.	BUY	30.27	Ordinary	2,178	2,178
10-Oct-2018	Vanguard Investments Australia Ltd.	BUY	29.95	Ordinary	694	694
10-Oct-2018	Vanguard Investments Australia Ltd.	SELL	29.95	Ordinary	(1,655)	(1,655)
11-Oct-2018	Vanguard Investments Australia Ltd.	BUY	29.47	Ordinary	2,904	2,904
17-Oct-2018	Vanguard Investments Australia Ltd.	BUY	29.84	Ordinary	4,046	4,046
17-Oct-2018	Vanguard Investments Australia Ltd.	BUY	29.84	Ordinary	7,332	7,332
24-Oct-2018	Vanguard Investments Australia Ltd.	BUY	28.31	Ordinary	2,856	2,856
25-Oct-2018	Vanguard Investments Australia Ltd.	BUY	27.61	Ordinary	5,767	5,767
25-Oct-2018	Vanguard Investments Australia Ltd.	SELL	27.61	Ordinary	(1,636)	(1,636)
25-Oct-2018	Vanguard Investments Australia Ltd.	BUY	27.61	Ordinary	3,332	3,332
29-Oct-2018	Vanguard Investments Australia Ltd.	BUY	27.84	Ordinary	12,149	12,149
31-Oct-2018	Vanguard Investments Australia Ltd.	BUY	28.26	Ordinary	699	699
31-Oct-2018	Vanguard Investments Australia Ltd.	BUY	28.26	Ordinary	3,728	3,728
1-Nov-2018	Vanguard Investments Australia Ltd.	BUY	27.97	Ordinary	466	466
2-Nov-2018	Vanguard Investments Australia Ltd.	BUY	27.60	Ordinary	3,107	3,107
5-Nov-2018	Vanguard Investments Australia Ltd.	BUY	27.31	Ordinary	8,024	8,024
6-Nov-2018	Vanguard Investments Australia Ltd.	BUY	27.47	Ordinary	11,636	11,636
12-Nov-2018	Vanguard Investments Australia Ltd.	BUY	27.00	Ordinary	3,107	3,107
15-Nov-2018	Vanguard Investments Australia Ltd.	SELL	26.85	Ordinary	(1,631)	(1,631)
19-Nov-2018	Vanguard Investments Australia Ltd.	SELL	26.40	Ordinary	(9,887)	(9,887)
22-Nov-2018	Vanguard Investments Australia Ltd.	BUY	26.74	Ordinary	3,416	3,416
23-Nov-2018	Vanguard Investments Australia Ltd.	BUY	26.87	Ordinary	4,600	4,600
29-Nov-2018	Vanguard Investments Australia Ltd.	BUY	27.49	Ordinary	2,684	2,684

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
3-Dec-2018	Vanguard Investments Australia Ltd.	BUY	27.96	Ordinary	3,172	3,172
3-Dec-2018	Vanguard Investments Australia Ltd.	BUY	27.96	Ordinary	4,469	4,469
4-Dec-2018	Vanguard Investments Australia Ltd.	BUY	27.49	Ordinary	43,756	43,756
7-Dec-2018	Vanguard Investments Australia Ltd.	BUY	27.13	Ordinary	4,557	4,557
11-Dec-2018	Vanguard Investments Australia Ltd.	BUY	26.61	Ordinary	2,916	2,916
11-Dec-2018	Vanguard Investments Australia Ltd.	BUY	26.61	Ordinary	4,860	4,860
12-Dec-2018	Vanguard Investments Australia Ltd.	BUY	27.11	Ordinary	185,848	185,848
14-Dec-2018	Vanguard Investments Australia Ltd.	SELL	26.84	Ordinary	(1,458)	(1,458)
20-Dec-2018	Vanguard Investments Australia Ltd.	SELL	25.34	Ordinary	(2,227)	(2,227)
21-Dec-2018	Vanguard Investments Australia Ltd.	BUY	24.90	Ordinary	11,542	11,542
21-Dec-2018	Vanguard Investments Australia Ltd.	BUY	24.90	Ordinary	10,883	10,883
21-Dec-2018	Vanguard Investments Australia Ltd.	BUY	24.90	Ordinary	8,006	8,006
21-Dec-2018	Vanguard Investments Australia Ltd.	BUY	24.90	Ordinary	13,723	13,723
21-Dec-2018	Vanguard Investments Australia Ltd.	BUY	24.90	Ordinary	24,118	24,118
27-Dec-2018	Vanguard Investments Australia Ltd.	BUY	25.33	Ordinary	1,458	1,458
31-Dec-2018	Vanguard Investments Australia Ltd.	BUY	25.54	Ordinary	7,273	7,273
8-Jan-2019	Vanguard Investments Australia Ltd.	BUY	26.26	Ordinary	2,500	2,500
11-Jan-2019	Vanguard Investments Australia Ltd.	BUY	26.61	Ordinary	2,976	2,976
11-Jan-2019	Vanguard Investments Australia Ltd.	BUY	26.67	Ordinary	5,020	5,020
18-Jan-2019	Vanguard Investments Australia Ltd.	BUY	26.28	Ordinary	1,344	1,344
18-Jan-2019	Vanguard Investments Australia Ltd.	BUY	26.28	Ordinary	4,970	4,970
21-Jan-2019	Vanguard Investments Australia Ltd.	SELL	26.86	Ordinary	(2,943)	(2,943)
29-Jan-2019	Vanguard Investments Australia Ltd.	BUY	26.62	Ordinary	5,932	5,932
30-Jan-2019	Vanguard Investments Australia Ltd.	BUY	26.95	Ordinary	992	992
30-Jan-2019	Vanguard Investments Australia Ltd.	BUY	26.69	Ordinary	4,966	4,966
1-Feb-2019	Vanguard Investments Australia Ltd.	BUY	27.18	Ordinary	6,219	6,219
5-Feb-2019	Vanguard Investments Australia Ltd.	SELL	27.64	Ordinary	(17,360)	(17,360)
12-Feb-2019	Vanguard Investments Australia Ltd.	SELL	27.74	Ordinary	(281)	(281)
13-Feb-2019	Vanguard Investments Australia Ltd.	BUY	27.50	Ordinary	9,158	9,158
15-Feb-2019	Vanguard Investments Australia Ltd.	SELL	28.06	Ordinary	(2,171)	(2,171)
19-Feb-2019	Vanguard Investments Australia Ltd.	BUY	28.25	Ordinary	2,728	2,728
20-Feb-2019	Vanguard Investments Australia Ltd.	SELL	27.80	Ordinary	(7,155)	(7,155)
25-Feb-2019	Vanguard Investments Australia Ltd.	BUY	27.61	Ordinary	7,764	7,764
26-Feb-2019	Vanguard Investments Australia Ltd.	SELL	29.17	Ordinary	(12,251)	(12,251)
26-Feb-2019	Vanguard Investments Australia Ltd.	BUY	28.90	Ordinary	2,480	2,480
5-Mar-2019	Vanguard Investments Australia Ltd.	BUY	27.58	Ordinary	16,192	16,192
12-Mar-2019	Vanguard Investments Australia Ltd.	SELL	27.35	Ordinary	(4,928)	(4,928)
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	27.79	Ordinary	116	116
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	27.81	Ordinary	6,487	6,487
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	27.79	Ordinary	123	123
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	27.81	Ordinary	6,875	6,875
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	27.79	Ordinary	35	35
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	27.81	Ordinary	1,959	1,959
15-Mar-2019	Vanguard Investments Australia Ltd.	SELL	27.79	Ordinary	(1,716)	(1,716)
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	27.79	Ordinary	73	73
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	27.81	Ordinary	4,136	4,136
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	27.79	Ordinary	126	126
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	27.81	Ordinary	7,050	7,050
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	27.79	Ordinary	90	90
15-Mar-2019	Vanguard Investments Australia Ltd.	BUY	27.81	Ordinary	5,041	5,041
22-Mar-2019	Vanguard Investments Australia Ltd.	BUY	26.49	Ordinary	5,310	5,310
1-Apr-2019	Vanguard Investments Australia Ltd.	BUY	26.19	Ordinary	608	608
1-Apr-2019	Vanguard Investments Australia Ltd.	BUY	26.19	Ordinary	15,986	15,986
1-Apr-2019	Vanguard Investments Australia Ltd.	SELL	26.19	Ordinary	(9,565)	(9,565)
1-Apr-2019	Vanguard Investments Australia Ltd.	BUY	26.19	Ordinary	9,409	9,409
2-Apr-2019	Vanguard Investments Australia Ltd.	BUY	26.50	Ordinary	7,269	7,269
2-Apr-2019	Vanguard Investments Australia Ltd.	BUY	26.45	Ordinary	1,876	1,876
8-Apr-2019	Vanguard Investments Australia Ltd.	BUY	26.91	Ordinary	2,144	2,144
9-Apr-2019	Vanguard Investments Australia Ltd.	SELL	27.03	Ordinary	(815)	(815)
9-Apr-2019	Vanguard Investments Australia Ltd.	BUY	27.03	Ordinary	76,575	76,575
12-Apr-2019	Vanguard Investments Australia Ltd.	SELL	27.67	Ordinary	(863)	(863)
12-Apr-2019	Vanguard Investments Australia Ltd.	SELL	27.67	Ordinary	(264)	(264)
15-Apr-2019	Vanguard Investments Australia Ltd.	BUY	27.18	Ordinary	136,940	136,940
15-Apr-2019	Vanguard Investments Australia Ltd.	SELL	23.43	Ordinary	(125,919)	(125,919)
15-Apr-2019	Vanguard Investments Australia Ltd.	BUY	27.18	Ordinary	15,898	15,898
15-Apr-2019	Vanguard Investments Australia Ltd.	SELL	23.43	Ordinary	(14,620)	(14,620)
15-Apr-2019	Vanguard Investments Australia Ltd.	BUY	27.18	Ordinary	64,957	64,957
15-Apr-2019	Vanguard Investments Australia Ltd.	SELL	23.43	Ordinary	(59,731)	(59,731)

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15-Apr-2019	Vanguard Investments Australia Ltd.	BUY	27.18	Ordinary	133,204	133,204
15-Apr-2019	Vanguard Investments Australia Ltd.	SELL	23.43	Ordinary	(122,484)	(122,484)
16-Apr-2019	Vanguard Investments Australia Ltd.	BUY	26.66	Ordinary	14,594	14,594
30-Apr-2019	Vanguard Investments Australia Ltd.	BUY	27.21	Ordinary	3,288	3,288
1-May-2019	Vanguard Investments Australia Ltd.	BUY	27.15	Ordinary	3,614	3,614
1-May-2019	Vanguard Investments Australia Ltd.	BUY	27.17	Ordinary	9,200	9,200
6-May-2019	Vanguard Investments Australia Ltd.	BUY	26.29	Ordinary	3,417	3,417
7-May-2019	Vanguard Investments Australia Ltd.	SELL	25.84	Ordinary	(831)	(831)
10-May-2019	Vanguard Investments Australia Ltd.	BUY	26.07	Ordinary	2,520	2,520
16-May-2019	Vanguard Investments Australia Ltd.	BUY	26.47	Ordinary	7,172	7,172
17-May-2019	Vanguard Investments Australia Ltd.	BUY	26.95	Ordinary	2,750	2,750
21-May-2019	Vanguard Investments Australia Ltd.	BUY	26.94	Ordinary	2,750	2,750
27-May-2019	Vanguard Investments Australia Ltd.	SELL	26.55	Ordinary	(3,494)	(3,494)
28-May-2019	Vanguard Investments Australia Ltd.	SELL	27.07	Ordinary	(4,120)	(4,120)
28-May-2019	Vanguard Investments Australia Ltd.	BUY	27.07	Ordinary	2,380	2,380
29-May-2019	Vanguard Investments Australia Ltd.	SELL	26.86	Ordinary	(5,220)	(5,220)
29-May-2019	Vanguard Investments Australia Ltd.	SELL	26.86	Ordinary	(11,602)	(11,602)
30-May-2019	Vanguard Investments Australia Ltd.	BUY	26.49	Ordinary	9,292	9,292
3-Jun-2019	Vanguard Investments Australia Ltd.	SELL	26.41	Ordinary	(5,369)	(5,369)
3-Jun-2019	Vanguard Investments Australia Ltd.	SELL	26.41	Ordinary	(2,622)	(2,622)
4-Jun-2019	Vanguard Investments Australia Ltd.	BUY	26.15	Ordinary	2,380	2,380
6-Jun-2019	Vanguard Investments Australia Ltd.	BUY	26.22	Ordinary	2,856	2,856
7-Jun-2019	Vanguard Investments Australia Ltd.	BUY	26.19	Ordinary	2,333	2,333
7-Jun-2019	Vanguard Investments Australia Ltd.	BUY	26.19	Ordinary	10,348	10,348
11-Jun-2019	Vanguard Investments Australia Ltd.	SELL	27.15	Ordinary	(2,480)	(2,480)
12-Jun-2019	Vanguard Investments Australia Ltd.	BUY	27.23	Ordinary	8,479	8,479
17-Jun-2019	Vanguard Investments Australia Ltd.	BUY	26.46	Ordinary	1,904	1,904
21-Jun-2019	Vanguard Investments Australia Ltd.	SELL	23.68	Ordinary	(391)	(391)
21-Jun-2019	Vanguard Investments Australia Ltd.	SELL	23.66	Ordinary	(4,424)	(4,424)
21-Jun-2019	Vanguard Investments Australia Ltd.	SELL	23.68	Ordinary	(1,581)	(1,581)
21-Jun-2019	Vanguard Investments Australia Ltd.	BUY	23.68	Ordinary	5,983	5,983
21-Jun-2019	Vanguard Investments Australia Ltd.	BUY	23.68	Ordinary	1,428	1,428
21-Jun-2019	Vanguard Investments Australia Ltd.	BUY	23.68	Ordinary	16,014	16,014
25-Jun-2019	Vanguard Investments Australia Ltd.	SELL	24.15	Ordinary	(5,119)	(5,119)
27-Jun-2019	Vanguard Investments Australia Ltd.	SELL	25.00	Ordinary	(1,364)	(1,364)
27-Jun-2019	Vanguard Investments Australia Ltd.	BUY	25.00	Ordinary	1,715	1,715
2-Jul-2019	Vanguard Investments Australia Ltd.	BUY	25.10	Ordinary	2,880	2,880
8-Jul-2019	Vanguard Investments Australia Ltd.	BUY	25.19	Ordinary	1,440	1,440
9-Jul-2019	Vanguard Investments Australia Ltd.	BUY	25.60	Ordinary	1,440	1,440
11-Jul-2019	Vanguard Investments Australia Ltd.	BUY	25.91	Ordinary	1,452	1,452
15-Jul-2019	Vanguard Investments Australia Ltd.	BUY	25.57	Ordinary	5,731	5,731
16-Jul-2019	Vanguard Investments Australia Ltd.	BUY	25.39	Ordinary	3,888	3,888
16-Jul-2019	Vanguard Investments Australia Ltd.	BUY	25.40	Ordinary	2,904	2,904
16-Jul-2019	Vanguard Investments Australia Ltd.	BUY	25.40	Ordinary	6,386	6,386
18-Jul-2019	Vanguard Investments Australia Ltd.	SELL	25.58	Ordinary	(1,173)	(1,173)
22-Jul-2019	Vanguard Investments Australia Ltd.	SELL	25.91	Ordinary	(159,441)	(159,441)
24-Jul-2019	Vanguard Investments Australia Ltd.	BUY	26.24	Ordinary	6,207	6,207
30-Jul-2019	Vanguard Investments Australia Ltd.	BUY	26.57	Ordinary	2,673	2,673
1-Aug-2019	Vanguard Investments Australia Ltd.	SELL	27.05	Ordinary	(1,430)	(1,430)
2-Aug-2019	Vanguard Investments Australia Ltd.	SELL	26.78	Ordinary	(5,437)	(5,437)
6-Aug-2019	Vanguard Investments Australia Ltd.	BUY	26.44	Ordinary	2,205	2,205
6-Aug-2019	Vanguard Investments Australia Ltd.	BUY	26.44	Ordinary	2,205	2,205
7-Aug-2019	Vanguard Investments Australia Ltd.	BUY	26.02	Ordinary	5,893	5,893
8-Aug-2019	Vanguard Investments Australia Ltd.	BUY	26.27	Ordinary	2,695	2,695
12-Aug-2019	Vanguard Investments Australia Ltd.	BUY	26.69	Ordinary	2,695	2,695
13-Aug-2019	Vanguard Investments Australia Ltd.	BUY	26.34	Ordinary	6,005	6,005
14-Aug-2019	Vanguard Investments Australia Ltd.	BUY	26.75	Ordinary	6,030	6,030
19-Aug-2019	Vanguard Investments Australia Ltd.	BUY	25.83	Ordinary	6,089	6,089
20-Aug-2019	Vanguard Investments Australia Ltd.	SELL	26.12	Ordinary	(2,710)	(2,710)
22-Aug-2019	Vanguard Investments Australia Ltd.	BUY	26.51	Ordinary	7,048	7,048
27-Aug-2019	Vanguard Investments Australia Ltd.	BUY	24.66	Ordinary	102,341	102,341
28-Aug-2019	Vanguard Investments Australia Ltd.	BUY	23.79	Ordinary	3,884	3,884
30-Aug-2019	Vanguard Investments Australia Ltd.	BUY	23.96	Ordinary	7,649	7,649
2-Sep-2019	Vanguard Investments Australia Ltd.	BUY	24.00	Ordinary	5,434	5,434
3-Sep-2019	Vanguard Investments Australia Ltd.	BUY	24.15	Ordinary	24,956	24,956
4-Sep-2019	Vanguard Investments Australia Ltd.	BUY	24.02	Ordinary	4,238	4,238
5-Sep-2019	Vanguard Investments Australia Ltd.	BUY	24.22	Ordinary	9,241	9,241
12-Sep-2019	Vanguard Investments Australia Ltd.	BUY	25.03	Ordinary	4,164	4,164

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-Sep-2019	Vanguard Investments Australia Ltd.	BUY	24.94	Ordinary	1,760	1,760
13-Sep-2019	Vanguard Investments Australia Ltd.	SELL	24.94	Ordinary	(1,758)	(1,758)
17-Sep-2019	Vanguard Investments Australia Ltd.	BUY	25.23	Ordinary	4,636	4,636
20-Sep-2019	Vanguard Investments Australia Ltd.	BUY	25.30	Ordinary	3,949	3,949
20-Sep-2019	Vanguard Investments Australia Ltd.	SELL	25.30	Ordinary	(11,252)	(11,252)
20-Sep-2019	Vanguard Investments Australia Ltd.	BUY	25.30	Ordinary	2,440	2,440
23-Sep-2019	Vanguard Investments Australia Ltd.	BUY	25.51	Ordinary	3,585	3,585
25-Sep-2019	Vanguard Investments Australia Ltd.	SELL	25.44	Ordinary	(3,920)	(3,920)
25-Sep-2019	Vanguard Investments Australia Ltd.	BUY	25.44	Ordinary	3,360	3,360
27-Sep-2019	Vanguard Investments Australia Ltd.	BUY	25.85	Ordinary	2,880	2,880
2-Oct-2019	Vanguard Investments Australia Ltd.	BUY	26.25	Ordinary	5,524	5,524
2-Oct-2019	Vanguard Investments Australia Ltd.	BUY	26.25	Ordinary	3,122	3,122
2-Oct-2019	Vanguard Investments Australia Ltd.	BUY	26.25	Ordinary	2,089	2,089
2-Oct-2019	Vanguard Investments Australia Ltd.	BUY	26.25	Ordinary	5,834	5,834
2-Oct-2019	Vanguard Investments Australia Ltd.	BUY	26.15	Ordinary	4,522	4,522
2-Oct-2019	Vanguard Investments Australia Ltd.	SELL	26.15	Ordinary	(5,712)	(5,712)
4-Oct-2019	Vanguard Investments Australia Ltd.	BUY	25.84	Ordinary	6,228	6,228
4-Oct-2019	Vanguard Investments Australia Ltd.	BUY	25.84	Ordinary	4,029	4,029
11-Oct-2019	Vanguard Investments Australia Ltd.	BUY	25.65	Ordinary	1,904	1,904
14-Oct-2019	Vanguard Investments Australia Ltd.	BUY	26.35	Ordinary	32,796	32,796
16-Oct-2019	Vanguard Investments Australia Ltd.	BUY	26.77	Ordinary	38,864	38,864
18-Oct-2019	Vanguard Investments Australia Ltd.	BUY	26.92	Ordinary	2,390	2,390
18-Oct-2019	Vanguard Investments Australia Ltd.	BUY	26.92	Ordinary	9,360	9,360
21-Oct-2019	Vanguard Investments Australia Ltd.	BUY	27.36	Ordinary	3,715	3,715
22-Oct-2019	Vanguard Investments Australia Ltd.	BUY	27.37	Ordinary	2,400	2,400
23-Oct-2019	Vanguard Investments Australia Ltd.	BUY	27.24	Ordinary	3,654	3,654
28-Oct-2019	Vanguard Investments Australia Ltd.	BUY	28.12	Ordinary	2,400	2,400
30-Oct-2019	Vanguard Investments Australia Ltd.	BUY	27.74	Ordinary	7,860	7,860
30-Oct-2019	Vanguard Investments Australia Ltd.	BUY	27.74	Ordinary	7,156	7,156
31-Oct-2019	Vanguard Investments Australia Ltd.	BUY	27.27	Ordinary	3,426	3,426
31-Oct-2019	Vanguard Investments Australia Ltd.	BUY	27.27	Ordinary	5,784	5,784
31-Oct-2019	Vanguard Investments Australia Ltd.	BUY	27.26	Ordinary	6,162	6,162
31-Oct-2019	Vanguard Investments Australia Ltd.	SELL	27.27	Ordinary	(2,892)	(2,892)
1-Nov-2019	Vanguard Investments Australia Ltd.	SELL	27.36	Ordinary	(32,864)	(32,864)
1-Nov-2019	Vanguard Investments Australia Ltd.	SELL	27.38	Ordinary	(6,782)	(6,782)
1-Nov-2019	Vanguard Investments Australia Ltd.	BUY	27.38	Ordinary	5,213	5,213
4-Nov-2019	Vanguard Investments Australia Ltd.	SELL	27.63	Ordinary	(42,366)	(42,366)
4-Nov-2019	Vanguard Investments Australia Ltd.	BUY	27.62	Ordinary	2,921	2,921
5-Nov-2019	Vanguard Investments Australia Ltd.	SELL	27.90	Ordinary	(10,666)	(10,666)
5-Nov-2019	Vanguard Investments Australia Ltd.	BUY	27.90	Ordinary	2,892	2,892
7-Nov-2019	Vanguard Investments Australia Ltd.	BUY	27.52	Ordinary	2,534	2,534
11-Nov-2019	Vanguard Investments Australia Ltd.	SELL	28.34	Ordinary	(2,376)	(2,376)
11-Nov-2019	Vanguard Investments Australia Ltd.	BUY	28.33	Ordinary	5,876	5,876
12-Nov-2019	Vanguard Investments Australia Ltd.	SELL	28.27	Ordinary	(1,044)	(1,044)
12-Nov-2019	Vanguard Investments Australia Ltd.	BUY	28.27	Ordinary	2,673	2,673
13-Nov-2019	Vanguard Investments Australia Ltd.	BUY	28.21	Ordinary	738	738
14-Nov-2019	Vanguard Investments Australia Ltd.	BUY	28.10	Ordinary	8,330	8,330
19-Nov-2019	Vanguard Investments Australia Ltd.	BUY	28.32	Ordinary	3,211	3,211
20-Nov-2019	Vanguard Investments Australia Ltd.	SELL	27.64	Ordinary	(19,568)	(19,568)
20-Nov-2019	Vanguard Investments Australia Ltd.	BUY	27.64	Ordinary	1,736	1,736
21-Nov-2019	Vanguard Investments Australia Ltd.	BUY	27.70	Ordinary	5,187	5,187
22-Nov-2019	Vanguard Investments Australia Ltd.	BUY	27.85	Ordinary	8,059	8,059
25-Nov-2019	Vanguard Investments Australia Ltd.	BUY	29.79	Ordinary	4,975	4,975
26-Nov-2019	Vanguard Investments Australia Ltd.	SELL	33.79	Ordinary	(3,097)	(3,097)
27-Nov-2019	Vanguard Investments Australia Ltd.	BUY	34.48	Ordinary	5,919	5,919
28-Nov-2019	Vanguard Investments Australia Ltd.	SELL	34.50	Ordinary	(549)	(549)
29-Nov-2019	Vanguard Investments Australia Ltd.	BUY	34.56	Ordinary	2,940	2,940
2-Dec-2019	Vanguard Investments Australia Ltd.	BUY	34.76	Ordinary	12,769	12,769
4-Dec-2019	Vanguard Investments Australia Ltd.	BUY	34.30	Ordinary	5,390	5,390
5-Dec-2019	Vanguard Investments Australia Ltd.	BUY	34.38	Ordinary	3,965	3,965
6-Dec-2019	Vanguard Investments Australia Ltd.	BUY	34.51	Ordinary	2,036	2,036
9-Dec-2019	Vanguard Investments Australia Ltd.	BUY	34.50	Ordinary	2,940	2,940
11-Dec-2019	Vanguard Investments Australia Ltd.	BUY	34.14	Ordinary	4,736	4,736
11-Dec-2019	Vanguard Investments Australia Ltd.	BUY	34.14	Ordinary	5,712	5,712
13-Dec-2019	Vanguard Investments Australia Ltd.	BUY	34.09	Ordinary	2,440	2,440
18-Dec-2019	Vanguard Investments Australia Ltd.	BUY	34.45	Ordinary	3,416	3,416
20-Dec-2019	Vanguard Investments Australia Ltd.	BUY	34.17	Ordinary	1,907	1,907
30-Dec-2019	Vanguard Investments Australia Ltd.	BUY	34.18	Ordinary	1,952	1,952

Annexure A

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
30-Dec-2019	Vanguard Investments Australia Ltd.	BUY	34.14	Ordinary	7,541	7,541
31-Dec-2019	Vanguard Investments Australia Ltd.	BUY	33.95	Ordinary	8,284	8,284
31-Dec-2019	Vanguard Investments Australia Ltd.	BUY	33.95	Ordinary	1,220	1,220
2-Jan-2020	Vanguard Investments Australia Ltd.	BUY	34.01	Ordinary	2,904	2,904
3-Jan-2020	Vanguard Investments Australia Ltd.	SELL	34.27	Ordinary	(17,601)	(17,601)
6-Jan-2020	Vanguard Investments Australia Ltd.	BUY	34.12	Ordinary	2,534	2,534
7-Jan-2020	Vanguard Investments Australia Ltd.	BUY	35.05	Ordinary	1,452	1,452
7-Jan-2020	Vanguard Investments Australia Ltd.	BUY	34.98	Ordinary	9,654	9,654
8-Jan-2020	Vanguard Investments Australia Ltd.	BUY	35.70	Ordinary	3,630	3,630
9-Jan-2020	Vanguard Investments Australia Ltd.	SELL	35.50	Ordinary	(1,936)	(1,936)
13-Jan-2020	Vanguard Investments Australia Ltd.	BUY	35.44	Ordinary	3,630	3,630
15-Jan-2020	Vanguard Investments Australia Ltd.	BUY	35.70	Ordinary	4,709	4,709
21-Jan-2020	Vanguard Investments Australia Ltd.	BUY	34.99	Ordinary	3,630	3,630

This is Annexure A of 15 pages referred to in Form 604, Notice of change of interest of substantial holder.

Signature: 

Name: Shawn Acker

Capacity: Compliance Manager

Date: 24 January 2020