

Form 605Corporations Act 2001
Section 671B**Notice of ceasing to be a substantial holder**

To Company Name/Scheme Cochlear Limited

ACN/ARSN 002 618 073

1. Details of substantial holder (1)

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

ACN/ARSN (if applicable) N/A

The holder ceased to be a substantial holder on 24 June 2021

The previous notice was given to the company on 26 November 2018

The previous notice was dated 26 November 2018

2. Changes in relevant interests

Particulars of each change in, or change in the nature of, a relevant interest (2) of the substantial holder or an associate (3) 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 (4)	Consideration given in relation to change (5)	Class (6) and number of securities affected	Person's votes affected
24 June 2021	Vanguard Investments Australia Ltd.	Vanguard Investments Australia Ltd. has ceased to be the Investment Manager for an institutional client mandate and as a result has ceased to hold a relevant interest in the shares held within that mandate.	Nil – There is no sell down activity associated with this change.	217,347 shares	Vanguard Group now holds 4.913% of voting power
See Annexure A for all other transactions					

3. Changes in association

The persons who have become associates (3) of, ceased to be associates of, or have changed the nature of their association (7) 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

4. 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 29 June 2021

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 4 of the form.
- (2) See the definition of "relevant interest" in sections 608 and 671B(7) of the Corporations Act 2001.
- (3) See the definition of "associate" in section 9 of the Corporations Act 2001.
- (4) 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.

- (5) 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.
- (6) The voting shares of a company constitute one class unless divided into separate classes.
- (7) Give details, if appropriate, of the present association and any change in that association since the last substantial holding notice.

To Company	Cochlear Limited
ACN/ARSN	002 618 073
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
23-Nov-18	The Vanguard Group, Inc.	BUY	167.43	Ordinary	18	18
26-Nov-18	The Vanguard Group, Inc.	SELL	166.83	Ordinary	(112)	(112)
27-Nov-18	The Vanguard Group, Inc.	BUY	167.50	Ordinary	64	64
28-Nov-18	The Vanguard Group, Inc.	BUY	169.98	Ordinary	385	385
28-Nov-18	The Vanguard Group, Inc.	BUY	169.98	Ordinary	350	350
28-Nov-18	The Vanguard Group, Inc.	BUY	169.98	Ordinary	40	40
28-Nov-18	The Vanguard Group, Inc.	BUY	169.98	Ordinary	240	240
30-Nov-18	The Vanguard Group, Inc.	SELL	169.80	Ordinary	(1,350)	(1,350)
30-Nov-18	The Vanguard Group, Inc.	BUY	170.05	Ordinary	30	30
3-Dec-18	The Vanguard Group, Inc.	BUY	172.68	Ordinary	60	60
4-Dec-18	The Vanguard Group, Inc.	BUY	169.96	Ordinary	582	582
4-Dec-18	The Vanguard Group, Inc.	BUY	167.50	Ordinary	560	560
4-Dec-18	The Vanguard Group, Inc.	BUY	167.50	Ordinary	464	464
5-Dec-18	The Vanguard Group, Inc.	BUY	170.71	Ordinary	288	288
6-Dec-18	The Vanguard Group, Inc.	SELL	169.35	Ordinary	(60)	(60)
6-Dec-18	The Vanguard Group, Inc.	BUY	169.35	Ordinary	389	389
6-Dec-18	The Vanguard Group, Inc.	BUY	170.30	Ordinary	348	348
7-Dec-18	The Vanguard Group, Inc.	SELL	172.83	Ordinary	(26)	(26)
7-Dec-18	The Vanguard Group, Inc.	BUY	172.36	Ordinary	560	560
7-Dec-18	The Vanguard Group, Inc.	BUY	172.36	Ordinary	490	490
7-Dec-18	The Vanguard Group, Inc.	BUY	172.83	Ordinary	865	865
10-Dec-18	The Vanguard Group, Inc.	BUY	165.73	Ordinary	309	309
11-Dec-18	The Vanguard Group, Inc.	BUY	170.31	Ordinary	420	420
11-Dec-18	The Vanguard Group, Inc.	BUY	170.31	Ordinary	560	560
12-Dec-18	The Vanguard Group, Inc.	BUY	170.14	Ordinary	220	220
12-Dec-18	The Vanguard Group, Inc.	BUY	170.14	Ordinary	420	420
12-Dec-18	The Vanguard Group, Inc.	BUY	170.14	Ordinary	1,190	1,190
12-Dec-18	The Vanguard Group, Inc.	BUY	170.14	Ordinary	420	420
13-Dec-18	The Vanguard Group, Inc.	BUY	171.35	Ordinary	385	385
14-Dec-18	The Vanguard Group, Inc.	SELL	170.53	Ordinary	(35)	(35)
14-Dec-18	The Vanguard Group, Inc.	BUY	169.39	Ordinary	165	165
14-Dec-18	The Vanguard Group, Inc.	BUY	169.39	Ordinary	420	420
17-Dec-18	The Vanguard Group, Inc.	BUY	173.06	Ordinary	550	550
17-Dec-18	The Vanguard Group, Inc.	BUY	173.06	Ordinary	840	840
20-Dec-18	The Vanguard Group, Inc.	BUY	169.73	Ordinary	445	445
20-Dec-18	The Vanguard Group, Inc.	SELL	169.73	Ordinary	(2,146)	(2,146)
20-Dec-18	The Vanguard Group, Inc.	BUY	168.73	Ordinary	560	560
21-Dec-18	The Vanguard Group, Inc.	SELL	169.32	Ordinary	(49)	(49)
21-Dec-18	The Vanguard Group, Inc.	BUY	166.25	Ordinary	465	465
21-Dec-18	The Vanguard Group, Inc.	BUY	166.25	Ordinary	77	77
21-Dec-18	The Vanguard Group, Inc.	SELL	169.32	Ordinary	(187)	(187)
21-Dec-18	The Vanguard Group, Inc.	SELL	166.03	Ordinary	(853)	(853)
21-Dec-18	The Vanguard Group, Inc.	BUY	166.25	Ordinary	856	856
21-Dec-18	The Vanguard Group, Inc.	SELL	166.03	Ordinary	(37)	(37)
24-Dec-18	The Vanguard Group, Inc.	BUY	165.32	Ordinary	580	580
24-Dec-18	The Vanguard Group, Inc.	BUY	165.32	Ordinary	928	928
24-Dec-18	The Vanguard Group, Inc.	SELL	169.26	Ordinary	(826)	(826)
26-Dec-18	The Vanguard Group, Inc.	BUY	169.48	Ordinary	348	348
27-Dec-18	The Vanguard Group, Inc.	BUY	175.09	Ordinary	870	870
27-Dec-18	The Vanguard Group, Inc.	BUY	175.09	Ordinary	174	174
27-Dec-18	The Vanguard Group, Inc.	BUY	175.09	Ordinary	290	290
27-Dec-18	The Vanguard Group, Inc.	BUY	175.09	Ordinary	170	170
31-Dec-18	The Vanguard Group, Inc.	BUY	173.96	Ordinary	816	816
2-Jan-19	The Vanguard Group, Inc.	BUY	174.90	Ordinary	372	372
2-Jan-19	The Vanguard Group, Inc.	BUY	175.57	Ordinary	348	348
2-Jan-19	The Vanguard Group, Inc.	BUY	175.57	Ordinary	406	406
2-Jan-19	The Vanguard Group, Inc.	BUY	175.57	Ordinary	612	612
2-Jan-19	The Vanguard Group, Inc.	BUY	175.57	Ordinary	238	238
2-Jan-19	The Vanguard Group, Inc.	BUY	173.57	Ordinary	66	66
3-Jan-19	The Vanguard Group, Inc.	BUY	175.84	Ordinary	290	290
4-Jan-19	The Vanguard Group, Inc.	BUY	175.38	Ordinary	64	64
4-Jan-19	The Vanguard Group, Inc.	SELL	173.66	Ordinary	(7,401)	(7,401)

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
7-Jan-19	The Vanguard Group, Inc.	BUY	176.22	Ordinary	116	116
8-Jan-19	The Vanguard Group, Inc.	SELL	176.73	Ordinary	(1,279)	(1,279)
8-Jan-19	The Vanguard Group, Inc.	SELL	175.99	Ordinary	(30)	(30)
9-Jan-19	The Vanguard Group, Inc.	BUY	181.56	Ordinary	38	38
9-Jan-19	The Vanguard Group, Inc.	SELL	182.58	Ordinary	(787)	(787)
10-Jan-19	The Vanguard Group, Inc.	BUY	184.67	Ordinary	297	297
10-Jan-19	The Vanguard Group, Inc.	SELL	183.80	Ordinary	(765)	(765)
10-Jan-19	The Vanguard Group, Inc.	BUY	185.58	Ordinary	544	544
11-Jan-19	The Vanguard Group, Inc.	BUY	184.57	Ordinary	204	204
15-Jan-19	The Vanguard Group, Inc.	BUY	185.79	Ordinary	50	50
17-Jan-19	The Vanguard Group, Inc.	BUY	186.99	Ordinary	163	163
17-Jan-19	The Vanguard Group, Inc.	BUY	187.56	Ordinary	63	63
17-Jan-19	The Vanguard Group, Inc.	SELL	187.56	Ordinary	(451)	(451)
17-Jan-19	The Vanguard Group, Inc.	SELL	188.36	Ordinary	(420)	(420)
18-Jan-19	The Vanguard Group, Inc.	SELL	189.19	Ordinary	(185)	(185)
18-Jan-19	The Vanguard Group, Inc.	SELL	188.84	Ordinary	(28)	(28)
22-Jan-19	The Vanguard Group, Inc.	BUY	189.77	Ordinary	13	13
22-Jan-19	The Vanguard Group, Inc.	SELL	189.46	Ordinary	(420)	(420)
23-Jan-19	The Vanguard Group, Inc.	SELL	192.96	Ordinary	(910)	(910)
24-Jan-19	The Vanguard Group, Inc.	BUY	195.65	Ordinary	884	884
24-Jan-19	The Vanguard Group, Inc.	SELL	195.86	Ordinary	(910)	(910)
25-Jan-19	The Vanguard Group, Inc.	BUY	195.57	Ordinary	52	52
28-Jan-19	The Vanguard Group, Inc.	SELL	194.65	Ordinary	(348)	(348)
29-Jan-19	The Vanguard Group, Inc.	BUY	191.79	Ordinary	100	100
29-Jan-19	The Vanguard Group, Inc.	SELL	192.15	Ordinary	(232)	(232)
29-Jan-19	The Vanguard Group, Inc.	SELL	192.15	Ordinary	(560)	(560)
29-Jan-19	The Vanguard Group, Inc.	SELL	192.15	Ordinary	(560)	(560)
29-Jan-19	The Vanguard Group, Inc.	SELL	192.15	Ordinary	(1,330)	(1,330)
29-Jan-19	The Vanguard Group, Inc.	SELL	194.20	Ordinary	(27)	(27)
30-Jan-19	The Vanguard Group, Inc.	BUY	191.77	Ordinary	1,592	1,592
30-Jan-19	The Vanguard Group, Inc.	SELL	191.77	Ordinary	(728)	(728)
30-Jan-19	The Vanguard Group, Inc.	SELL	192.50	Ordinary	(348)	(348)
30-Jan-19	The Vanguard Group, Inc.	BUY	192.50	Ordinary	238	238
31-Jan-19	The Vanguard Group, Inc.	SELL	194.42	Ordinary	(986)	(986)
31-Jan-19	The Vanguard Group, Inc.	BUY	193.08	Ordinary	1,459	1,459
5-Feb-19	The Vanguard Group, Inc.	BUY	196.56	Ordinary	198	198
5-Feb-19	The Vanguard Group, Inc.	BUY	194.84	Ordinary	374	374
7-Feb-19	The Vanguard Group, Inc.	SELL	196.94	Ordinary	(232)	(232)
7-Feb-19	The Vanguard Group, Inc.	SELL	196.94	Ordinary	(232)	(232)
7-Feb-19	The Vanguard Group, Inc.	SELL	196.94	Ordinary	(448)	(448)
7-Feb-19	The Vanguard Group, Inc.	BUY	196.94	Ordinary	680	680
8-Feb-19	The Vanguard Group, Inc.	BUY	198.85	Ordinary	727	727
8-Feb-19	The Vanguard Group, Inc.	SELL	199.32	Ordinary	(754)	(754)
8-Feb-19	The Vanguard Group, Inc.	BUY	198.17	Ordinary	1,417	1,417
11-Feb-19	The Vanguard Group, Inc.	BUY	197.72	Ordinary	1,151	1,151
11-Feb-19	The Vanguard Group, Inc.	SELL	197.88	Ordinary	(522)	(522)
11-Feb-19	The Vanguard Group, Inc.	BUY	199.95	Ordinary	822	822
12-Feb-19	The Vanguard Group, Inc.	SELL	198.36	Ordinary	(2,997)	(2,997)
13-Feb-19	The Vanguard Group, Inc.	SELL	194.47	Ordinary	(348)	(348)
15-Feb-19	The Vanguard Group, Inc.	BUY	199.51	Ordinary	4,273	4,273
15-Feb-19	The Vanguard Group, Inc.	SELL	199.63	Ordinary	(8)	(8)
18-Feb-19	The Vanguard Group, Inc.	BUY	194.41	Ordinary	204	204
20-Feb-19	The Vanguard Group, Inc.	BUY	173.45	Ordinary	987	987
21-Feb-19	The Vanguard Group, Inc.	SELL	170.19	Ordinary	(290)	(290)
21-Feb-19	The Vanguard Group, Inc.	BUY	173.38	Ordinary	4,241	4,241
26-Feb-19	The Vanguard Group, Inc.	BUY	170.40	Ordinary	350	350
28-Feb-19	The Vanguard Group, Inc.	SELL	170.50	Ordinary	(961)	(961)
1-Mar-19	The Vanguard Group, Inc.	BUY	172.92	Ordinary	48	48
1-Mar-19	The Vanguard Group, Inc.	SELL	172.92	Ordinary	(204)	(204)
1-Mar-19	The Vanguard Group, Inc.	SELL	172.92	Ordinary	(1,056)	(1,056)
1-Mar-19	The Vanguard Group, Inc.	BUY	172.92	Ordinary	448	448
4-Mar-19	The Vanguard Group, Inc.	SELL	173.85	Ordinary	(1,123)	(1,123)
4-Mar-19	The Vanguard Group, Inc.	BUY	173.85	Ordinary	2,330	2,330
5-Mar-19	The Vanguard Group, Inc.	SELL	173.50	Ordinary	(237)	(237)
5-Mar-19	The Vanguard Group, Inc.	BUY	173.51	Ordinary	420	420
6-Mar-19	The Vanguard Group, Inc.	BUY	177.26	Ordinary	52	52
7-Mar-19	The Vanguard Group, Inc.	BUY	177.14	Ordinary	72	72
8-Mar-19	The Vanguard Group, Inc.	BUY	177.42	Ordinary	130	130
8-Mar-19	The Vanguard Group, Inc.	BUY	177.31	Ordinary	350	350

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
12-Mar-19	The Vanguard Group, Inc.	SELL	177.53	Ordinary	(336)	(336)
13-Mar-19	The Vanguard Group, Inc.	SELL	178.05	Ordinary	(13,396)	(13,396)
14-Mar-19	The Vanguard Group, Inc.	SELL	179.98	Ordinary	(795)	(795)
15-Mar-19	The Vanguard Group, Inc.	SELL	181.08	Ordinary	(155)	(155)
18-Mar-19	The Vanguard Group, Inc.	BUY	182.59	Ordinary	434	434
19-Mar-19	The Vanguard Group, Inc.	BUY	179.44	Ordinary	405	405
20-Mar-19	The Vanguard Group, Inc.	BUY	177.05	Ordinary	210	210
20-Mar-19	The Vanguard Group, Inc.	BUY	178.80	Ordinary	3,937	3,937
21-Mar-19	The Vanguard Group, Inc.	BUY	173.17	Ordinary	36	36
22-Mar-19	The Vanguard Group, Inc.	BUY	177.81	Ordinary	1,036	1,036
26-Mar-19	The Vanguard Group, Inc.	BUY	175.91	Ordinary	4,488	4,488
27-Mar-19	The Vanguard Group, Inc.	SELL	176.31	Ordinary	(30)	(30)
28-Mar-19	The Vanguard Group, Inc.	SELL	172.55	Ordinary	(197)	(197)
29-Mar-19	The Vanguard Group, Inc.	SELL	173.28	Ordinary	(751)	(751)
29-Mar-19	The Vanguard Group, Inc.	BUY	173.28	Ordinary	4,099	4,099
1-Apr-19	The Vanguard Group, Inc.	BUY	174.23	Ordinary	280	280
4-Apr-19	The Vanguard Group, Inc.	BUY	173.21	Ordinary	109	109
4-Apr-19	The Vanguard Group, Inc.	SELL	173.21	Ordinary	(441)	(441)
5-Apr-19	The Vanguard Group, Inc.	BUY	170.16	Ordinary	620	620
9-Apr-19	The Vanguard Group, Inc.	SELL	172.60	Ordinary	(342)	(342)
10-Apr-19	The Vanguard Group, Inc.	BUY	171.03	Ordinary	1,384	1,384
12-Apr-19	The Vanguard Group, Inc.	BUY	167.70	Ordinary	1,637	1,637
12-Apr-19	The Vanguard Group, Inc.	BUY	165.10	Ordinary	5,999	5,999
16-Apr-19	The Vanguard Group, Inc.	SELL	175.07	Ordinary	(12,450)	(12,450)
16-Apr-19	The Vanguard Group, Inc.	BUY	178.97	Ordinary	54	54
18-Apr-19	The Vanguard Group, Inc.	BUY	175.75	Ordinary	724	724
23-Apr-19	The Vanguard Group, Inc.	SELL	176.00	Ordinary	(320)	(320)
23-Apr-19	The Vanguard Group, Inc.	BUY	177.04	Ordinary	558	558
24-Apr-19	The Vanguard Group, Inc.	BUY	180.10	Ordinary	75	75
24-Apr-19	The Vanguard Group, Inc.	SELL	180.10	Ordinary	(798)	(798)
26-Apr-19	The Vanguard Group, Inc.	BUY	181.18	Ordinary	220	220
26-Apr-19	The Vanguard Group, Inc.	BUY	182.29	Ordinary	350	350
26-Apr-19	The Vanguard Group, Inc.	SELL	181.18	Ordinary	(24)	(24)
30-Apr-19	The Vanguard Group, Inc.	BUY	187.51	Ordinary	81	81
3-May-19	The Vanguard Group, Inc.	BUY	191.00	Ordinary	70	70
3-May-19	The Vanguard Group, Inc.	BUY	191.14	Ordinary	109	109
3-May-19	The Vanguard Group, Inc.	BUY	193.27	Ordinary	3,713	3,713
6-May-19	The Vanguard Group, Inc.	SELL	192.33	Ordinary	(336)	(336)
7-May-19	The Vanguard Group, Inc.	BUY	192.77	Ordinary	109	109
7-May-19	The Vanguard Group, Inc.	BUY	190.01	Ordinary	310	310
8-May-19	The Vanguard Group, Inc.	SELL	192.24	Ordinary	(336)	(336)
8-May-19	The Vanguard Group, Inc.	BUY	191.44	Ordinary	3,772	3,772
8-May-19	The Vanguard Group, Inc.	BUY	192.24	Ordinary	81	81
9-May-19	The Vanguard Group, Inc.	BUY	193.67	Ordinary	420	420
10-May-19	The Vanguard Group, Inc.	BUY	196.02	Ordinary	71	71
10-May-19	The Vanguard Group, Inc.	SELL	196.02	Ordinary	(914)	(914)
10-May-19	The Vanguard Group, Inc.	BUY	194.16	Ordinary	1,845	1,845
14-May-19	The Vanguard Group, Inc.	BUY	193.63	Ordinary	224	224
14-May-19	The Vanguard Group, Inc.	SELL	193.63	Ordinary	(336)	(336)
15-May-19	The Vanguard Group, Inc.	BUY	195.91	Ordinary	761	761
16-May-19	The Vanguard Group, Inc.	BUY	196.17	Ordinary	8,986	8,986
16-May-19	The Vanguard Group, Inc.	BUY	195.91	Ordinary	3,853	3,853
17-May-19	The Vanguard Group, Inc.	BUY	198.00	Ordinary	39	39
20-May-19	The Vanguard Group, Inc.	BUY	198.71	Ordinary	738	738
20-May-19	The Vanguard Group, Inc.	BUY	197.92	Ordinary	310	310
21-May-19	The Vanguard Group, Inc.	BUY	199.26	Ordinary	60	60
21-May-19	The Vanguard Group, Inc.	BUY	199.26	Ordinary	267	267
22-May-19	The Vanguard Group, Inc.	BUY	199.29	Ordinary	279	279
22-May-19	The Vanguard Group, Inc.	BUY	199.44	Ordinary	4,898	4,898
22-May-19	The Vanguard Group, Inc.	BUY	199.44	Ordinary	1,598	1,598
23-May-19	The Vanguard Group, Inc.	BUY	202.11	Ordinary	388	388
24-May-19	The Vanguard Group, Inc.	BUY	200.11	Ordinary	67	67
28-May-19	The Vanguard Group, Inc.	BUY	198.55	Ordinary	252	252
28-May-19	The Vanguard Group, Inc.	SELL	198.78	Ordinary	(1,541)	(1,541)
28-May-19	The Vanguard Group, Inc.	BUY	197.14	Ordinary	350	350
29-May-19	The Vanguard Group, Inc.	SELL	198.46	Ordinary	(38)	(38)
29-May-19	The Vanguard Group, Inc.	BUY	197.53	Ordinary	122	122
30-May-19	The Vanguard Group, Inc.	BUY	196.96	Ordinary	3,646	3,646
31-May-19	The Vanguard Group, Inc.	SELL	200.13	Ordinary	(1,595)	(1,595)

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
3-Jun-19	The Vanguard Group, Inc.	BUY	198.06	Ordinary	310	310
4-Jun-19	The Vanguard Group, Inc.	BUY	194.96	Ordinary	519	519
5-Jun-19	The Vanguard Group, Inc.	SELL	196.71	Ordinary	(109)	(109)
5-Jun-19	The Vanguard Group, Inc.	SELL	197.73	Ordinary	(448)	(448)
5-Jun-19	The Vanguard Group, Inc.	SELL	197.73	Ordinary	(224)	(224)
6-Jun-19	The Vanguard Group, Inc.	SELL	199.66	Ordinary	(1,877)	(1,877)
7-Jun-19	The Vanguard Group, Inc.	BUY	200.39	Ordinary	3,106	3,106
7-Jun-19	The Vanguard Group, Inc.	BUY	200.99	Ordinary	54	54
10-Jun-19	The Vanguard Group, Inc.	BUY	201.97	Ordinary	372	372
10-Jun-19	The Vanguard Group, Inc.	BUY	201.97	Ordinary	81	81
11-Jun-19	The Vanguard Group, Inc.	SELL	205.77	Ordinary	(280)	(280)
12-Jun-19	The Vanguard Group, Inc.	BUY	201.73	Ordinary	45	45
12-Jun-19	The Vanguard Group, Inc.	SELL	201.73	Ordinary	(2,073)	(2,073)
12-Jun-19	The Vanguard Group, Inc.	BUY	202.03	Ordinary	372	372
13-Jun-19	The Vanguard Group, Inc.	SELL	204.83	Ordinary	(1,504)	(1,504)
13-Jun-19	The Vanguard Group, Inc.	BUY	203.50	Ordinary	124	124
14-Jun-19	The Vanguard Group, Inc.	SELL	203.61	Ordinary	(1,567)	(1,567)
14-Jun-19	The Vanguard Group, Inc.	SELL	204.32	Ordinary	(168)	(168)
14-Jun-19	The Vanguard Group, Inc.	BUY	204.32	Ordinary	54	54
14-Jun-19	The Vanguard Group, Inc.	BUY	204.32	Ordinary	54	54
17-Jun-19	The Vanguard Group, Inc.	SELL	201.83	Ordinary	(476)	(476)
18-Jun-19	The Vanguard Group, Inc.	SELL	202.30	Ordinary	(116)	(116)
20-Jun-19	The Vanguard Group, Inc.	BUY	208.88	Ordinary	310	310
21-Jun-19	The Vanguard Group, Inc.	BUY	204.31	Ordinary	371	371
21-Jun-19	The Vanguard Group, Inc.	BUY	204.31	Ordinary	54	54
21-Jun-19	The Vanguard Group, Inc.	BUY	204.31	Ordinary	404	404
21-Jun-19	The Vanguard Group, Inc.	BUY	204.64	Ordinary	155	155
21-Jun-19	The Vanguard Group, Inc.	SELL	204.31	Ordinary	(535)	(535)
21-Jun-19	The Vanguard Group, Inc.	SELL	204.31	Ordinary	(37)	(37)
24-Jun-19	The Vanguard Group, Inc.	BUY	204.79	Ordinary	448	448
25-Jun-19	The Vanguard Group, Inc.	BUY	206.67	Ordinary	142	142
25-Jun-19	The Vanguard Group, Inc.	SELL	205.77	Ordinary	(168)	(168)
25-Jun-19	The Vanguard Group, Inc.	BUY	205.77	Ordinary	186	186
25-Jun-19	The Vanguard Group, Inc.	BUY	205.77	Ordinary	279	279
26-Jun-19	The Vanguard Group, Inc.	BUY	208.27	Ordinary	109	109
26-Jun-19	The Vanguard Group, Inc.	BUY	208.27	Ordinary	140	140
26-Jun-19	The Vanguard Group, Inc.	SELL	208.46	Ordinary	(8,720)	(8,720)
26-Jun-19	The Vanguard Group, Inc.	BUY	207.56	Ordinary	1,831	1,831
26-Jun-19	The Vanguard Group, Inc.	BUY	207.59	Ordinary	372	372
26-Jun-19	The Vanguard Group, Inc.	BUY	207.59	Ordinary	217	217
27-Jun-19	The Vanguard Group, Inc.	SELL	206.45	Ordinary	(58)	(58)
28-Jun-19	The Vanguard Group, Inc.	BUY	207.39	Ordinary	270	270
1-Jul-19	The Vanguard Group, Inc.	BUY	209.84	Ordinary	54	54
2-Jul-19	The Vanguard Group, Inc.	BUY	211.99	Ordinary	1,066	1,066
2-Jul-19	The Vanguard Group, Inc.	BUY	212.30	Ordinary	279	279
3-Jul-19	The Vanguard Group, Inc.	BUY	215.93	Ordinary	1,249	1,249
4-Jul-19	The Vanguard Group, Inc.	BUY	215.20	Ordinary	516	516
5-Jul-19	The Vanguard Group, Inc.	BUY	218.11	Ordinary	216	216
9-Jul-19	The Vanguard Group, Inc.	BUY	214.95	Ordinary	168	168
9-Jul-19	The Vanguard Group, Inc.	BUY	215.91	Ordinary	310	310
10-Jul-19	The Vanguard Group, Inc.	BUY	222.17	Ordinary	165	165
10-Jul-19	The Vanguard Group, Inc.	BUY	220.23	Ordinary	3,715	3,715
12-Jul-19	The Vanguard Group, Inc.	SELL	221.55	Ordinary	(878)	(878)
12-Jul-19	The Vanguard Group, Inc.	BUY	221.26	Ordinary	340	340
15-Jul-19	The Vanguard Group, Inc.	BUY	220.45	Ordinary	324	324
17-Jul-19	The Vanguard Group, Inc.	BUY	218.95	Ordinary	310	310
17-Jul-19	The Vanguard Group, Inc.	BUY	218.95	Ordinary	155	155
17-Jul-19	The Vanguard Group, Inc.	BUY	218.95	Ordinary	217	217
18-Jul-19	The Vanguard Group, Inc.	BUY	221.74	Ordinary	133	133
18-Jul-19	The Vanguard Group, Inc.	SELL	219.00	Ordinary	(446)	(446)
22-Jul-19	The Vanguard Group, Inc.	SELL	216.44	Ordinary	(1,017)	(1,017)
22-Jul-19	The Vanguard Group, Inc.	BUY	216.78	Ordinary	270	270
22-Jul-19	The Vanguard Group, Inc.	BUY	216.78	Ordinary	270	270
22-Jul-19	The Vanguard Group, Inc.	BUY	216.78	Ordinary	310	310
23-Jul-19	The Vanguard Group, Inc.	BUY	217.00	Ordinary	56	56
23-Jul-19	The Vanguard Group, Inc.	BUY	220.29	Ordinary	310	310
25-Jul-19	The Vanguard Group, Inc.	BUY	224.03	Ordinary	168	168
26-Jul-19	The Vanguard Group, Inc.	SELL	222.04	Ordinary	(220)	(220)
26-Jul-19	The Vanguard Group, Inc.	BUY	223.23	Ordinary	280	280

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
26-Jul-19	The Vanguard Group, Inc.	BUY	223.23	Ordinary	279	279
29-Jul-19	The Vanguard Group, Inc.	SELL	223.96	Ordinary	(1,258)	(1,258)
30-Jul-19	The Vanguard Group, Inc.	BUY	225.20	Ordinary	109	109
30-Jul-19	The Vanguard Group, Inc.	BUY	225.13	Ordinary	746	746
30-Jul-19	The Vanguard Group, Inc.	SELL	225.35	Ordinary	(224)	(224)
30-Jul-19	The Vanguard Group, Inc.	BUY	225.35	Ordinary	52	52
30-Jul-19	The Vanguard Group, Inc.	SELL	224.95	Ordinary	(52)	(52)
31-Jul-19	The Vanguard Group, Inc.	BUY	219.71	Ordinary	279	279
1-Aug-19	The Vanguard Group, Inc.	SELL	220.13	Ordinary	(2,165)	(2,165)
1-Aug-19	The Vanguard Group, Inc.	BUY	220.08	Ordinary	486	486
2-Aug-19	The Vanguard Group, Inc.	BUY	222.78	Ordinary	224	224
2-Aug-19	The Vanguard Group, Inc.	BUY	223.44	Ordinary	3,939	3,939
5-Aug-19	The Vanguard Group, Inc.	BUY	214.46	Ordinary	280	280
5-Aug-19	The Vanguard Group, Inc.	BUY	214.46	Ordinary	310	310
6-Aug-19	The Vanguard Group, Inc.	BUY	209.93	Ordinary	590	590
6-Aug-19	The Vanguard Group, Inc.	BUY	212.54	Ordinary	52	52
7-Aug-19	The Vanguard Group, Inc.	SELL	210.92	Ordinary	(7,703)	(7,703)
7-Aug-19	The Vanguard Group, Inc.	BUY	211.13	Ordinary	716	716
7-Aug-19	The Vanguard Group, Inc.	BUY	211.13	Ordinary	1,843	1,843
7-Aug-19	The Vanguard Group, Inc.	BUY	211.13	Ordinary	6,166	6,166
7-Aug-19	The Vanguard Group, Inc.	SELL	211.19	Ordinary	(7)	(7)
8-Aug-19	The Vanguard Group, Inc.	BUY	210.39	Ordinary	90	90
8-Aug-19	The Vanguard Group, Inc.	SELL	211.79	Ordinary	(280)	(280)
12-Aug-19	The Vanguard Group, Inc.	BUY	208.94	Ordinary	496	496
13-Aug-19	The Vanguard Group, Inc.	SELL	204.98	Ordinary	(392)	(392)
14-Aug-19	The Vanguard Group, Inc.	SELL	204.30	Ordinary	(207)	(207)
15-Aug-19	The Vanguard Group, Inc.	BUY	201.20	Ordinary	3	3
15-Aug-19	The Vanguard Group, Inc.	SELL	200.97	Ordinary	(336)	(336)
15-Aug-19	The Vanguard Group, Inc.	BUY	201.20	Ordinary	3,642	3,642
19-Aug-19	The Vanguard Group, Inc.	SELL	217.79	Ordinary	(47)	(47)
19-Aug-19	The Vanguard Group, Inc.	BUY	213.83	Ordinary	1,440	1,440
19-Aug-19	The Vanguard Group, Inc.	BUY	217.79	Ordinary	618	618
19-Aug-19	The Vanguard Group, Inc.	BUY	219.01	Ordinary	52	52
20-Aug-19	The Vanguard Group, Inc.	BUY	217.31	Ordinary	3,524	3,524
20-Aug-19	The Vanguard Group, Inc.	BUY	217.93	Ordinary	52	52
22-Aug-19	The Vanguard Group, Inc.	SELL	217.33	Ordinary	(614)	(614)
22-Aug-19	The Vanguard Group, Inc.	BUY	216.35	Ordinary	620	620
23-Aug-19	The Vanguard Group, Inc.	BUY	211.49	Ordinary	52	52
27-Aug-19	The Vanguard Group, Inc.	SELL	211.26	Ordinary	(228)	(228)
29-Aug-19	The Vanguard Group, Inc.	BUY	213.25	Ordinary	794	794
2-Sep-19	The Vanguard Group, Inc.	BUY	215.81	Ordinary	577	577
6-Sep-19	The Vanguard Group, Inc.	SELL	214.17	Ordinary	(217)	(217)
9-Sep-19	The Vanguard Group, Inc.	BUY	213.23	Ordinary	403	403
10-Sep-19	The Vanguard Group, Inc.	SELL	213.01	Ordinary	(25)	(25)
11-Sep-19	The Vanguard Group, Inc.	BUY	207.42	Ordinary	403	403
12-Sep-19	The Vanguard Group, Inc.	BUY	207.33	Ordinary	310	310
16-Sep-19	The Vanguard Group, Inc.	BUY	207.44	Ordinary	314	314
16-Sep-19	The Vanguard Group, Inc.	BUY	208.15	Ordinary	168	168
16-Sep-19	The Vanguard Group, Inc.	BUY	208.15	Ordinary	52	52
18-Sep-19	The Vanguard Group, Inc.	SELL	208.97	Ordinary	(5,853)	(5,853)
18-Sep-19	The Vanguard Group, Inc.	BUY	209.49	Ordinary	279	279
20-Sep-19	The Vanguard Group, Inc.	BUY	208.16	Ordinary	5	5
20-Sep-19	The Vanguard Group, Inc.	SELL	208.45	Ordinary	(981)	(981)
20-Sep-19	The Vanguard Group, Inc.	SELL	208.45	Ordinary	(6,682)	(6,682)
20-Sep-19	The Vanguard Group, Inc.	SELL	208.45	Ordinary	(223)	(223)
23-Sep-19	The Vanguard Group, Inc.	BUY	206.82	Ordinary	310	310
24-Sep-19	The Vanguard Group, Inc.	SELL	210.08	Ordinary	(57)	(57)
24-Sep-19	The Vanguard Group, Inc.	BUY	210.08	Ordinary	153	153
24-Sep-19	The Vanguard Group, Inc.	BUY	210.08	Ordinary	762	762
24-Sep-19	The Vanguard Group, Inc.	BUY	210.08	Ordinary	881	881
25-Sep-19	The Vanguard Group, Inc.	BUY	208.45	Ordinary	859	859
25-Sep-19	The Vanguard Group, Inc.	BUY	209.40	Ordinary	310	310
27-Sep-19	The Vanguard Group, Inc.	SELL	207.37	Ordinary	(43)	(43)
1-Oct-19	The Vanguard Group, Inc.	BUY	213.50	Ordinary	109	109
2-Oct-19	The Vanguard Group, Inc.	BUY	205.22	Ordinary	52	52
4-Oct-19	The Vanguard Group, Inc.	BUY	206.83	Ordinary	43	43
4-Oct-19	The Vanguard Group, Inc.	BUY	208.74	Ordinary	52	52
8-Oct-19	The Vanguard Group, Inc.	BUY	206.58	Ordinary	52	52
10-Oct-19	The Vanguard Group, Inc.	BUY	206.24	Ordinary	930	930

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10-Oct-19	The Vanguard Group, Inc.	BUY	206.24	Ordinary	310	310
15-Oct-19	The Vanguard Group, Inc.	BUY	212.94	Ordinary	248	248
16-Oct-19	The Vanguard Group, Inc.	BUY	213.80	Ordinary	43	43
17-Oct-19	The Vanguard Group, Inc.	BUY	214.94	Ordinary	962	962
25-Oct-19	The Vanguard Group, Inc.	BUY	207.42	Ordinary	612	612
25-Oct-19	The Vanguard Group, Inc.	SELL	208.14	Ordinary	(672)	(672)
25-Oct-19	The Vanguard Group, Inc.	BUY	208.14	Ordinary	78	78
28-Oct-19	The Vanguard Group, Inc.	BUY	210.40	Ordinary	1,790	1,790
29-Oct-19	The Vanguard Group, Inc.	SELL	209.26	Ordinary	(598)	(598)
30-Oct-19	The Vanguard Group, Inc.	BUY	211.58	Ordinary	2,277	2,277
31-Oct-19	The Vanguard Group, Inc.	SELL	211.54	Ordinary	(815)	(815)
1-Nov-19	The Vanguard Group, Inc.	BUY	211.52	Ordinary	19	19
4-Nov-19	The Vanguard Group, Inc.	BUY	214.00	Ordinary	174	174
4-Nov-19	The Vanguard Group, Inc.	BUY	214.00	Ordinary	160	160
5-Nov-19	The Vanguard Group, Inc.	BUY	215.53	Ordinary	620	620
5-Nov-19	The Vanguard Group, Inc.	SELL	214.22	Ordinary	(54)	(54)
6-Nov-19	The Vanguard Group, Inc.	BUY	216.47	Ordinary	234	234
6-Nov-19	The Vanguard Group, Inc.	BUY	212.44	Ordinary	310	310
8-Nov-19	The Vanguard Group, Inc.	BUY	215.05	Ordinary	52	52
11-Nov-19	The Vanguard Group, Inc.	BUY	218.50	Ordinary	434	434
15-Nov-19	The Vanguard Group, Inc.	BUY	224.85	Ordinary	248	248
15-Nov-19	The Vanguard Group, Inc.	BUY	224.85	Ordinary	52	52
18-Nov-19	The Vanguard Group, Inc.	BUY	223.91	Ordinary	129	129
18-Nov-19	The Vanguard Group, Inc.	BUY	223.75	Ordinary	341	341
21-Nov-19	The Vanguard Group, Inc.	BUY	222.62	Ordinary	20	20
21-Nov-19	The Vanguard Group, Inc.	BUY	223.02	Ordinary	52	52
22-Nov-19	The Vanguard Group, Inc.	BUY	224.84	Ordinary	86	86
22-Nov-19	The Vanguard Group, Inc.	BUY	225.02	Ordinary	496	496
22-Nov-19	The Vanguard Group, Inc.	SELL	221.50	Ordinary	(16)	(16)
25-Nov-19	The Vanguard Group, Inc.	BUY	224.82	Ordinary	43	43
25-Nov-19	The Vanguard Group, Inc.	BUY	226.09	Ordinary	620	620
26-Nov-19	The Vanguard Group, Inc.	BUY	229.78	Ordinary	802	802
26-Nov-19	The Vanguard Group, Inc.	BUY	229.93	Ordinary	26	26
26-Nov-19	The Vanguard Group, Inc.	SELL	229.80	Ordinary	(7)	(7)
27-Nov-19	The Vanguard Group, Inc.	BUY	231.04	Ordinary	43	43
27-Nov-19	The Vanguard Group, Inc.	BUY	231.04	Ordinary	109	109
29-Nov-19	The Vanguard Group, Inc.	BUY	233.99	Ordinary	43	43
29-Nov-19	The Vanguard Group, Inc.	BUY	233.99	Ordinary	21	21
2-Dec-19	The Vanguard Group, Inc.	BUY	232.82	Ordinary	980	980
4-Dec-19	The Vanguard Group, Inc.	BUY	226.95	Ordinary	86	86
4-Dec-19	The Vanguard Group, Inc.	BUY	226.95	Ordinary	506	506
4-Dec-19	The Vanguard Group, Inc.	BUY	227.22	Ordinary	248	248
6-Dec-19	The Vanguard Group, Inc.	BUY	230.30	Ordinary	1,030	1,030
9-Dec-19	The Vanguard Group, Inc.	BUY	230.61	Ordinary	104	104
11-Dec-19	The Vanguard Group, Inc.	BUY	228.16	Ordinary	16	16
11-Dec-19	The Vanguard Group, Inc.	BUY	226.96	Ordinary	372	372
11-Dec-19	The Vanguard Group, Inc.	BUY	226.96	Ordinary	52	52
11-Dec-19	The Vanguard Group, Inc.	BUY	226.96	Ordinary	52	52
12-Dec-19	The Vanguard Group, Inc.	BUY	230.26	Ordinary	183	183
12-Dec-19	The Vanguard Group, Inc.	BUY	230.26	Ordinary	465	465
16-Dec-19	The Vanguard Group, Inc.	BUY	231.98	Ordinary	52	52
17-Dec-19	The Vanguard Group, Inc.	BUY	231.93	Ordinary	620	620
17-Dec-19	The Vanguard Group, Inc.	BUY	231.93	Ordinary	341	341
20-Dec-19	The Vanguard Group, Inc.	BUY	234.02	Ordinary	19	19
20-Dec-19	The Vanguard Group, Inc.	SELL	234.53	Ordinary	(243)	(243)
20-Dec-19	The Vanguard Group, Inc.	BUY	234.02	Ordinary	881	881
23-Dec-19	The Vanguard Group, Inc.	BUY	231.90	Ordinary	980	980
23-Dec-19	The Vanguard Group, Inc.	BUY	231.90	Ordinary	210	210
24-Dec-19	The Vanguard Group, Inc.	BUY	232.74	Ordinary	76	76
24-Dec-19	The Vanguard Group, Inc.	BUY	232.45	Ordinary	420	420
26-Dec-19	The Vanguard Group, Inc.	BUY	232.69	Ordinary	1,050	1,050
27-Dec-19	The Vanguard Group, Inc.	BUY	232.69	Ordinary	212	212
27-Dec-19	The Vanguard Group, Inc.	BUY	231.67	Ordinary	52	52
30-Dec-19	The Vanguard Group, Inc.	SELL	232.80	Ordinary	(124)	(124)
30-Dec-19	The Vanguard Group, Inc.	BUY	232.80	Ordinary	38	38
30-Dec-19	The Vanguard Group, Inc.	BUY	232.80	Ordinary	154	154
30-Dec-19	The Vanguard Group, Inc.	BUY	463.14	Ordinary	620	620
31-Dec-19	The Vanguard Group, Inc.	BUY	224.59	Ordinary	1,690	1,690
2-Jan-20	The Vanguard Group, Inc.	BUY	225.32	Ordinary	38	38

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2-Jan-20	The Vanguard Group, Inc.	BUY	226.65	Ordinary	52	52
3-Jan-20	The Vanguard Group, Inc.	BUY	226.28	Ordinary	52	52
6-Jan-20	The Vanguard Group, Inc.	BUY	225.15	Ordinary	111	111
6-Jan-20	The Vanguard Group, Inc.	BUY	227.11	Ordinary	156	156
6-Jan-20	The Vanguard Group, Inc.	BUY	225.96	Ordinary	51	51
8-Jan-20	The Vanguard Group, Inc.	BUY	224.02	Ordinary	925	925
8-Jan-20	The Vanguard Group, Inc.	BUY	225.52	Ordinary	930	930
9-Jan-20	The Vanguard Group, Inc.	BUY	229.61	Ordinary	118	118
9-Jan-20	The Vanguard Group, Inc.	BUY	230.59	Ordinary	1,260	1,260
9-Jan-20	The Vanguard Group, Inc.	BUY	230.59	Ordinary	279	279
10-Jan-20	The Vanguard Group, Inc.	BUY	232.69	Ordinary	76	76
13-Jan-20	The Vanguard Group, Inc.	BUY	232.15	Ordinary	109	109
14-Jan-20	The Vanguard Group, Inc.	SELL	232.48	Ordinary	(1,726)	(1,726)
15-Jan-20	The Vanguard Group, Inc.	BUY	236.44	Ordinary	560	560
16-Jan-20	The Vanguard Group, Inc.	BUY	239.22	Ordinary	37	37
16-Jan-20	The Vanguard Group, Inc.	BUY	240.25	Ordinary	630	630
16-Jan-20	The Vanguard Group, Inc.	BUY	239.99	Ordinary	3,270	3,270
17-Jan-20	The Vanguard Group, Inc.	BUY	240.71	Ordinary	76	76
17-Jan-20	The Vanguard Group, Inc.	BUY	241.70	Ordinary	630	630
17-Jan-20	The Vanguard Group, Inc.	BUY	241.70	Ordinary	560	560
17-Jan-20	The Vanguard Group, Inc.	BUY	241.70	Ordinary	26	26
21-Jan-20	The Vanguard Group, Inc.	BUY	239.18	Ordinary	915	915
21-Jan-20	The Vanguard Group, Inc.	BUY	239.18	Ordinary	78	78
22-Jan-20	The Vanguard Group, Inc.	BUY	240.89	Ordinary	186	186
22-Jan-20	The Vanguard Group, Inc.	BUY	240.89	Ordinary	109	109
22-Jan-20	The Vanguard Group, Inc.	BUY	240.16	Ordinary	420	420
23-Jan-20	The Vanguard Group, Inc.	BUY	237.10	Ordinary	37	37
23-Jan-20	The Vanguard Group, Inc.	BUY	237.10	Ordinary	74	74
23-Jan-20	The Vanguard Group, Inc.	BUY	238.10	Ordinary	350	350
23-Jan-20	The Vanguard Group, Inc.	BUY	238.10	Ordinary	310	310
24-Jan-20	The Vanguard Group, Inc.	BUY	236.05	Ordinary	87	87
28-Jan-20	The Vanguard Group, Inc.	BUY	230.75	Ordinary	2,532	2,532
28-Jan-20	The Vanguard Group, Inc.	SELL	229.51	Ordinary	(83)	(83)
29-Jan-20	The Vanguard Group, Inc.	BUY	240.11	Ordinary	74	74
30-Jan-20	The Vanguard Group, Inc.	BUY	238.31	Ordinary	37	37
30-Jan-20	The Vanguard Group, Inc.	BUY	238.31	Ordinary	37	37
31-Jan-20	The Vanguard Group, Inc.	BUY	241.07	Ordinary	156	156
31-Jan-20	The Vanguard Group, Inc.	BUY	241.07	Ordinary	1,115	1,115
31-Jan-20	The Vanguard Group, Inc.	BUY	237.92	Ordinary	420	420
31-Jan-20	The Vanguard Group, Inc.	BUY	237.92	Ordinary	420	420
31-Jan-20	The Vanguard Group, Inc.	BUY	237.92	Ordinary	52	52
3-Feb-20	The Vanguard Group, Inc.	BUY	239.75	Ordinary	327	327
3-Feb-20	The Vanguard Group, Inc.	BUY	240.00	Ordinary	1,085	1,085
4-Feb-20	The Vanguard Group, Inc.	BUY	240.13	Ordinary	16	16
4-Feb-20	The Vanguard Group, Inc.	BUY	240.13	Ordinary	111	111
4-Feb-20	The Vanguard Group, Inc.	BUY	240.13	Ordinary	120	120
4-Feb-20	The Vanguard Group, Inc.	BUY	241.36	Ordinary	976	976
4-Feb-20	The Vanguard Group, Inc.	BUY	241.36	Ordinary	244	244
4-Feb-20	The Vanguard Group, Inc.	BUY	241.36	Ordinary	558	558
4-Feb-20	The Vanguard Group, Inc.	BUY	240.52	Ordinary	3,207	3,207
5-Feb-20	The Vanguard Group, Inc.	BUY	244.28	Ordinary	1,330	1,330
5-Feb-20	The Vanguard Group, Inc.	BUY	244.28	Ordinary	490	490
5-Feb-20	The Vanguard Group, Inc.	BUY	244.28	Ordinary	775	775
7-Feb-20	The Vanguard Group, Inc.	BUY	243.43	Ordinary	248	248
10-Feb-20	The Vanguard Group, Inc.	BUY	244.76	Ordinary	74	74
10-Feb-20	The Vanguard Group, Inc.	BUY	244.76	Ordinary	109	109
10-Feb-20	The Vanguard Group, Inc.	BUY	246.47	Ordinary	630	630
10-Feb-20	The Vanguard Group, Inc.	BUY	246.47	Ordinary	52	52
11-Feb-20	The Vanguard Group, Inc.	BUY	236.09	Ordinary	420	420
12-Feb-20	The Vanguard Group, Inc.	BUY	232.87	Ordinary	966	966
13-Feb-20	The Vanguard Group, Inc.	BUY	228.21	Ordinary	37	37
13-Feb-20	The Vanguard Group, Inc.	BUY	228.21	Ordinary	37	37
13-Feb-20	The Vanguard Group, Inc.	BUY	228.51	Ordinary	910	910
13-Feb-20	The Vanguard Group, Inc.	SELL	237.00	Ordinary	(21)	(21)
14-Feb-20	The Vanguard Group, Inc.	SELL	233.00	Ordinary	(586)	(586)
14-Feb-20	The Vanguard Group, Inc.	BUY	232.74	Ordinary	420	420
14-Feb-20	The Vanguard Group, Inc.	BUY	232.74	Ordinary	78	78
18-Feb-20	The Vanguard Group, Inc.	BUY	226.62	Ordinary	170	170
19-Feb-20	The Vanguard Group, Inc.	BUY	252.32	Ordinary	350	350

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
19-Feb-20	The Vanguard Group, Inc.	BUY	248.88	Ordinary	2,541	2,541
20-Feb-20	The Vanguard Group, Inc.	BUY	242.35	Ordinary	763	763
20-Feb-20	The Vanguard Group, Inc.	BUY	253.34	Ordinary	2,636	2,636
21-Feb-20	The Vanguard Group, Inc.	BUY	231.60	Ordinary	80	80
21-Feb-20	The Vanguard Group, Inc.	BUY	229.91	Ordinary	560	560
21-Feb-20	The Vanguard Group, Inc.	SELL	231.60	Ordinary	(1,020)	(1,020)
24-Feb-20	The Vanguard Group, Inc.	SELL	221.41	Ordinary	(280)	(280)
24-Feb-20	The Vanguard Group, Inc.	BUY	221.41	Ordinary	52	52
25-Feb-20	The Vanguard Group, Inc.	SELL	219.00	Ordinary	(1,171)	(1,171)
25-Feb-20	The Vanguard Group, Inc.	BUY	213.60	Ordinary	420	420
25-Feb-20	The Vanguard Group, Inc.	SELL	213.60	Ordinary	(112)	(112)
25-Feb-20	The Vanguard Group, Inc.	SELL	221.99	Ordinary	(175)	(175)
25-Feb-20	The Vanguard Group, Inc.	BUY	220.40	Ordinary	2,606	2,606
26-Feb-20	The Vanguard Group, Inc.	BUY	212.96	Ordinary	121	121
26-Feb-20	The Vanguard Group, Inc.	BUY	214.66	Ordinary	2,693	2,693
26-Feb-20	The Vanguard Group, Inc.	BUY	212.96	Ordinary	2,692	2,692
27-Feb-20	The Vanguard Group, Inc.	BUY	204.41	Ordinary	589	589
28-Feb-20	The Vanguard Group, Inc.	BUY	207.59	Ordinary	715	715
28-Feb-20	The Vanguard Group, Inc.	BUY	207.59	Ordinary	2,894	2,894
28-Feb-20	The Vanguard Group, Inc.	BUY	207.39	Ordinary	802	802
28-Feb-20	The Vanguard Group, Inc.	BUY	205.51	Ordinary	2,064	2,064
2-Mar-20	The Vanguard Group, Inc.	BUY	206.41	Ordinary	1,956	1,956
2-Mar-20	The Vanguard Group, Inc.	SELL	213.24	Ordinary	(560)	(560)
2-Mar-20	The Vanguard Group, Inc.	SELL	206.49	Ordinary	(58)	(58)
3-Mar-20	The Vanguard Group, Inc.	BUY	218.00	Ordinary	36	36
3-Mar-20	The Vanguard Group, Inc.	BUY	214.52	Ordinary	52	52
4-Mar-20	The Vanguard Group, Inc.	BUY	207.50	Ordinary	18	18
4-Mar-20	The Vanguard Group, Inc.	BUY	207.50	Ordinary	36	36
4-Mar-20	The Vanguard Group, Inc.	BUY	207.50	Ordinary	72	72
4-Mar-20	The Vanguard Group, Inc.	BUY	207.50	Ordinary	36	36
4-Mar-20	The Vanguard Group, Inc.	BUY	211.52	Ordinary	104	104
4-Mar-20	The Vanguard Group, Inc.	BUY	211.52	Ordinary	78	78
5-Mar-20	The Vanguard Group, Inc.	SELL	209.28	Ordinary	(7,146)	(7,146)
6-Mar-20	The Vanguard Group, Inc.	BUY	205.00	Ordinary	203	203
6-Mar-20	The Vanguard Group, Inc.	SELL	205.00	Ordinary	(5,104)	(5,104)
6-Mar-20	The Vanguard Group, Inc.	SELL	203.76	Ordinary	(420)	(420)
9-Mar-20	The Vanguard Group, Inc.	SELL	197.34	Ordinary	(1,267)	(1,267)
9-Mar-20	The Vanguard Group, Inc.	BUY	191.85	Ordinary	78	78
9-Mar-20	The Vanguard Group, Inc.	BUY	191.85	Ordinary	26	26
10-Mar-20	The Vanguard Group, Inc.	BUY	197.07	Ordinary	36	36
10-Mar-20	The Vanguard Group, Inc.	SELL	197.07	Ordinary	(552)	(552)
10-Mar-20	The Vanguard Group, Inc.	SELL	200.31	Ordinary	(350)	(350)
10-Mar-20	The Vanguard Group, Inc.	BUY	194.89	Ordinary	3,898	3,898
11-Mar-20	The Vanguard Group, Inc.	SELL	186.97	Ordinary	(210)	(210)
11-Mar-20	The Vanguard Group, Inc.	SELL	194.40	Ordinary	(110)	(110)
11-Mar-20	The Vanguard Group, Inc.	BUY	194.11	Ordinary	3,695	3,695
12-Mar-20	The Vanguard Group, Inc.	BUY	178.49	Ordinary	36	36
12-Mar-20	The Vanguard Group, Inc.	BUY	178.49	Ordinary	72	72
12-Mar-20	The Vanguard Group, Inc.	BUY	178.49	Ordinary	197	197
12-Mar-20	The Vanguard Group, Inc.	SELL	170.73	Ordinary	(770)	(770)
13-Mar-20	The Vanguard Group, Inc.	BUY	216.11	Ordinary	21	21
13-Mar-20	The Vanguard Group, Inc.	BUY	174.89	Ordinary	6,044	6,044
13-Mar-20	The Vanguard Group, Inc.	BUY	216.11	Ordinary	3,920	3,920
13-Mar-20	The Vanguard Group, Inc.	BUY	228.34	Ordinary	130	130
13-Mar-20	The Vanguard Group, Inc.	BUY	228.34	Ordinary	26	26
16-Mar-20	The Vanguard Group, Inc.	BUY	174.51	Ordinary	51	51
16-Mar-20	The Vanguard Group, Inc.	BUY	176.39	Ordinary	72	72
16-Mar-20	The Vanguard Group, Inc.	BUY	174.51	Ordinary	36	36
16-Mar-20	The Vanguard Group, Inc.	BUY	174.51	Ordinary	110	110
16-Mar-20	The Vanguard Group, Inc.	SELL	167.72	Ordinary	(244)	(244)
16-Mar-20	The Vanguard Group, Inc.	SELL	167.72	Ordinary	(168)	(168)
17-Mar-20	The Vanguard Group, Inc.	SELL	172.33	Ordinary	(52)	(52)
17-Mar-20	The Vanguard Group, Inc.	BUY	172.33	Ordinary	31	31
17-Mar-20	The Vanguard Group, Inc.	SELL	175.72	Ordinary	(552)	(552)
17-Mar-20	The Vanguard Group, Inc.	SELL	175.72	Ordinary	(690)	(690)
17-Mar-20	The Vanguard Group, Inc.	SELL	175.72	Ordinary	(224)	(224)
17-Mar-20	The Vanguard Group, Inc.	BUY	175.72	Ordinary	270	270
17-Mar-20	The Vanguard Group, Inc.	BUY	175.72	Ordinary	243	243
17-Mar-20	The Vanguard Group, Inc.	BUY	175.19	Ordinary	5,740	5,740

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18-Mar-20	The Vanguard Group, Inc.	BUY	170.67	Ordinary	29	29
18-Mar-20	The Vanguard Group, Inc.	BUY	170.67	Ordinary	58	58
18-Mar-20	The Vanguard Group, Inc.	BUY	167.64	Ordinary	5,554	5,554
18-Mar-20	The Vanguard Group, Inc.	BUY	173.45	Ordinary	92	92
19-Mar-20	The Vanguard Group, Inc.	BUY	176.01	Ordinary	513	513
19-Mar-20	The Vanguard Group, Inc.	BUY	174.83	Ordinary	3,886	3,886
19-Mar-20	The Vanguard Group, Inc.	BUY	176.01	Ordinary	46	46
20-Mar-20	The Vanguard Group, Inc.	SELL	164.96	Ordinary	(1,039)	(1,039)
20-Mar-20	The Vanguard Group, Inc.	BUY	159.86	Ordinary	29	29
20-Mar-20	The Vanguard Group, Inc.	SELL	164.96	Ordinary	(581)	(581)
20-Mar-20	The Vanguard Group, Inc.	SELL	159.86	Ordinary	(697)	(697)
20-Mar-20	The Vanguard Group, Inc.	BUY	159.86	Ordinary	199	199
20-Mar-20	The Vanguard Group, Inc.	SELL	164.96	Ordinary	(817)	(817)
20-Mar-20	The Vanguard Group, Inc.	BUY	159.86	Ordinary	1,892	1,892
20-Mar-20	The Vanguard Group, Inc.	SELL	156.26	Ordinary	(280)	(280)
20-Mar-20	The Vanguard Group, Inc.	BUY	170.63	Ordinary	5,070	5,070
20-Mar-20	The Vanguard Group, Inc.	SELL	164.96	Ordinary	(2,165)	(2,165)
20-Mar-20	The Vanguard Group, Inc.	BUY	156.26	Ordinary	46	46
20-Mar-20	The Vanguard Group, Inc.	SELL	164.96	Ordinary	(286)	(286)
23-Mar-20	The Vanguard Group, Inc.	SELL	157.65	Ordinary	(314)	(314)
23-Mar-20	The Vanguard Group, Inc.	BUY	159.41	Ordinary	29	29
23-Mar-20	The Vanguard Group, Inc.	SELL	157.65	Ordinary	(175)	(175)
23-Mar-20	The Vanguard Group, Inc.	BUY	159.41	Ordinary	110	110
23-Mar-20	The Vanguard Group, Inc.	SELL	154.60	Ordinary	(247)	(247)
23-Mar-20	The Vanguard Group, Inc.	SELL	162.30	Ordinary	(224)	(224)
23-Mar-20	The Vanguard Group, Inc.	SELL	154.60	Ordinary	(655)	(655)
23-Mar-20	The Vanguard Group, Inc.	SELL	157.65	Ordinary	(86)	(86)
23-Mar-20	The Vanguard Group, Inc.	SELL	154.60	Ordinary	(80)	(80)
24-Mar-20	The Vanguard Group, Inc.	BUY	168.00	Ordinary	29	29
24-Mar-20	The Vanguard Group, Inc.	SELL	165.60	Ordinary	(395)	(395)
24-Mar-20	The Vanguard Group, Inc.	BUY	166.01	Ordinary	4,282	4,282
26-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	641	641
26-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	1,298	1,298
26-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	67	67
26-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	1,433	1,433
26-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	5,953	5,953
26-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	116	116
26-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	98	98
26-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	25	25
26-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	11,036	11,036
26-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	2,253	2,253
26-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	39,520	39,520
26-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	5,628	5,628
26-Mar-20	The Vanguard Group, Inc.	SELL	190.93	Ordinary	(168)	(168)
26-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	107,257	107,257
26-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	369	369
27-Mar-20	The Vanguard Group, Inc.	BUY	166.47	Ordinary	58	58
27-Mar-20	The Vanguard Group, Inc.	BUY	166.47	Ordinary	58	58
27-Mar-20	The Vanguard Group, Inc.	BUY	166.47	Ordinary	20	20
30-Mar-20	The Vanguard Group, Inc.	BUY	182.81	Ordinary	108	108
31-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	62	62
31-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	394	394
31-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	33	33
31-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	1,362	1,362
31-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	52	52
31-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	217	217
31-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	194	194
31-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	124	124
31-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	141	141
31-Mar-20	The Vanguard Group, Inc.	BUY	187.45	Ordinary	30	30
31-Mar-20	The Vanguard Group, Inc.	BUY	187.45	Ordinary	83	83
31-Mar-20	The Vanguard Group, Inc.	BUY	187.45	Ordinary	3,004	3,004
31-Mar-20	The Vanguard Group, Inc.	SELL	187.45	Ordinary	(1,370)	(1,370)
31-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	1,384	1,384
31-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	2,788	2,788
31-Mar-20	The Vanguard Group, Inc.	BUY	140.00	Ordinary	398	398
1-Apr-20	The Vanguard Group, Inc.	BUY	190.55	Ordinary	54	54
1-Apr-20	The Vanguard Group, Inc.	BUY	195.50	Ordinary	238	238
1-Apr-20	The Vanguard Group, Inc.	SELL	192.19	Ordinary	(8,525)	(8,525)

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1-Apr-20	The Vanguard Group, Inc.	BUY	190.55	Ordinary	1,535	1,535
2-Apr-20	The Vanguard Group, Inc.	BUY	190.00	Ordinary	6,064	6,064
2-Apr-20	The Vanguard Group, Inc.	BUY	192.55	Ordinary	270	270
2-Apr-20	The Vanguard Group, Inc.	BUY	192.55	Ordinary	69	69
3-Apr-20	The Vanguard Group, Inc.	SELL	190.38	Ordinary	(658)	(658)
6-Apr-20	The Vanguard Group, Inc.	BUY	191.37	Ordinary	30	30
7-Apr-20	The Vanguard Group, Inc.	BUY	183.18	Ordinary	30	30
7-Apr-20	The Vanguard Group, Inc.	BUY	183.18	Ordinary	357	357
8-Apr-20	The Vanguard Group, Inc.	BUY	185.40	Ordinary	351	351
9-Apr-20	The Vanguard Group, Inc.	BUY	190.97	Ordinary	69	69
9-Apr-20	The Vanguard Group, Inc.	BUY	190.97	Ordinary	23	23
14-Apr-20	The Vanguard Group, Inc.	SELL	197.56	Ordinary	(418)	(418)
14-Apr-20	The Vanguard Group, Inc.	BUY	199.40	Ordinary	69	69
15-Apr-20	The Vanguard Group, Inc.	SELL	192.34	Ordinary	(296)	(296)
15-Apr-20	The Vanguard Group, Inc.	SELL	192.34	Ordinary	(666)	(666)
15-Apr-20	The Vanguard Group, Inc.	SELL	192.34	Ordinary	(592)	(592)
15-Apr-20	The Vanguard Group, Inc.	BUY	192.34	Ordinary	69	69
16-Apr-20	The Vanguard Group, Inc.	BUY	194.65	Ordinary	119	119
16-Apr-20	The Vanguard Group, Inc.	SELL	188.30	Ordinary	(3,198)	(3,198)
17-Apr-20	The Vanguard Group, Inc.	BUY	193.89	Ordinary	245	245
17-Apr-20	The Vanguard Group, Inc.	BUY	193.89	Ordinary	189	189
20-Apr-20	The Vanguard Group, Inc.	BUY	182.98	Ordinary	378	378
20-Apr-20	The Vanguard Group, Inc.	BUY	182.98	Ordinary	216	216
22-Apr-20	The Vanguard Group, Inc.	BUY	179.81	Ordinary	1,966	1,966
24-Apr-20	The Vanguard Group, Inc.	SELL	179.00	Ordinary	(115)	(115)
28-Apr-20	The Vanguard Group, Inc.	BUY	186.08	Ordinary	270	270
30-Apr-20	The Vanguard Group, Inc.	SELL	182.46	Ordinary	(666)	(666)
1-May-20	The Vanguard Group, Inc.	SELL	178.96	Ordinary	(888)	(888)
1-May-20	The Vanguard Group, Inc.	SELL	178.96	Ordinary	(236)	(236)
6-May-20	The Vanguard Group, Inc.	BUY	182.01	Ordinary	300	300
7-May-20	The Vanguard Group, Inc.	BUY	183.50	Ordinary	76	76
7-May-20	The Vanguard Group, Inc.	BUY	184.50	Ordinary	30	30
7-May-20	The Vanguard Group, Inc.	SELL	183.50	Ordinary	(68)	(68)
8-May-20	The Vanguard Group, Inc.	SELL	182.09	Ordinary	(413)	(413)
11-May-20	The Vanguard Group, Inc.	SELL	191.00	Ordinary	(1,024)	(1,024)
12-May-20	The Vanguard Group, Inc.	BUY	188.67	Ordinary	30	30
13-May-20	The Vanguard Group, Inc.	BUY	190.98	Ordinary	119	119
13-May-20	The Vanguard Group, Inc.	BUY	190.98	Ordinary	262	262
14-May-20	The Vanguard Group, Inc.	SELL	189.98	Ordinary	(163)	(163)
15-May-20	The Vanguard Group, Inc.	BUY	188.14	Ordinary	119	119
15-May-20	The Vanguard Group, Inc.	BUY	188.26	Ordinary	848	848
15-May-20	The Vanguard Group, Inc.	SELL	189.00	Ordinary	(110)	(110)
18-May-20	The Vanguard Group, Inc.	SELL	187.54	Ordinary	(1,517)	(1,517)
20-May-20	The Vanguard Group, Inc.	SELL	183.20	Ordinary	(110)	(110)
21-May-20	The Vanguard Group, Inc.	BUY	188.73	Ordinary	119	119
22-May-20	The Vanguard Group, Inc.	BUY	186.04	Ordinary	337	337
22-May-20	The Vanguard Group, Inc.	SELL	187.41	Ordinary	(161)	(161)
22-May-20	The Vanguard Group, Inc.	BUY	187.19	Ordinary	69	69
27-May-20	The Vanguard Group, Inc.	BUY	187.93	Ordinary	57	57
27-May-20	The Vanguard Group, Inc.	BUY	188.44	Ordinary	46	46
28-May-20	The Vanguard Group, Inc.	BUY	192.46	Ordinary	708	708
29-May-20	The Vanguard Group, Inc.	BUY	193.20	Ordinary	675	675
29-May-20	The Vanguard Group, Inc.	SELL	193.49	Ordinary	(294)	(294)
1-Jun-20	The Vanguard Group, Inc.	BUY	194.20	Ordinary	295	295
2-Jun-20	The Vanguard Group, Inc.	BUY	192.32	Ordinary	1,397	1,397
2-Jun-20	The Vanguard Group, Inc.	BUY	192.77	Ordinary	885	885
3-Jun-20	The Vanguard Group, Inc.	BUY	195.43	Ordinary	30	30
3-Jun-20	The Vanguard Group, Inc.	BUY	196.83	Ordinary	69	69
4-Jun-20	The Vanguard Group, Inc.	BUY	195.98	Ordinary	303	303
4-Jun-20	The Vanguard Group, Inc.	BUY	196.98	Ordinary	295	295
4-Jun-20	The Vanguard Group, Inc.	SELL	196.81	Ordinary	(3,018)	(3,018)
5-Jun-20	The Vanguard Group, Inc.	BUY	194.83	Ordinary	46	46
9-Jun-20	The Vanguard Group, Inc.	BUY	193.00	Ordinary	33	33
9-Jun-20	The Vanguard Group, Inc.	BUY	193.00	Ordinary	119	119
9-Jun-20	The Vanguard Group, Inc.	SELL	192.57	Ordinary	(294)	(294)
9-Jun-20	The Vanguard Group, Inc.	SELL	195.86	Ordinary	(740)	(740)
9-Jun-20	The Vanguard Group, Inc.	SELL	193.44	Ordinary	(6,031)	(6,031)
9-Jun-20	The Vanguard Group, Inc.	BUY	192.57	Ordinary	46	46
10-Jun-20	The Vanguard Group, Inc.	SELL	194.33	Ordinary	(1,723)	(1,723)

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10-Jun-20	The Vanguard Group, Inc.	SELL	193.48	Ordinary	(3,291)	(3,291)
11-Jun-20	The Vanguard Group, Inc.	SELL	194.07	Ordinary	(1,880)	(1,880)
11-Jun-20	The Vanguard Group, Inc.	SELL	189.50	Ordinary	(296)	(296)
11-Jun-20	The Vanguard Group, Inc.	SELL	189.50	Ordinary	(740)	(740)
11-Jun-20	The Vanguard Group, Inc.	SELL	189.50	Ordinary	(444)	(444)
11-Jun-20	The Vanguard Group, Inc.	BUY	189.50	Ordinary	295	295
15-Jun-20	The Vanguard Group, Inc.	BUY	187.67	Ordinary	173	173
15-Jun-20	The Vanguard Group, Inc.	SELL	191.43	Ordinary	(444)	(444)
17-Jun-20	The Vanguard Group, Inc.	BUY	195.70	Ordinary	949	949
19-Jun-20	The Vanguard Group, Inc.	BUY	194.74	Ordinary	216	216
19-Jun-20	The Vanguard Group, Inc.	BUY	194.74	Ordinary	2,097	2,097
19-Jun-20	The Vanguard Group, Inc.	BUY	194.74	Ordinary	496	496
19-Jun-20	The Vanguard Group, Inc.	SELL	193.91	Ordinary	(343)	(343)
19-Jun-20	The Vanguard Group, Inc.	BUY	194.74	Ordinary	3,032	3,032
19-Jun-20	The Vanguard Group, Inc.	BUY	194.74	Ordinary	11,690	11,690
19-Jun-20	The Vanguard Group, Inc.	BUY	194.74	Ordinary	2,581	2,581
19-Jun-20	The Vanguard Group, Inc.	BUY	193.91	Ordinary	46	46
22-Jun-20	The Vanguard Group, Inc.	BUY	192.12	Ordinary	64	64
22-Jun-20	The Vanguard Group, Inc.	SELL	192.00	Ordinary	(109)	(109)
23-Jun-20	The Vanguard Group, Inc.	BUY	190.00	Ordinary	105	105
23-Jun-20	The Vanguard Group, Inc.	SELL	193.87	Ordinary	(749)	(749)
24-Jun-20	The Vanguard Group, Inc.	SELL	190.76	Ordinary	(490)	(490)
24-Jun-20	The Vanguard Group, Inc.	SELL	190.76	Ordinary	(147)	(147)
24-Jun-20	The Vanguard Group, Inc.	SELL	190.76	Ordinary	(444)	(444)
24-Jun-20	The Vanguard Group, Inc.	SELL	190.76	Ordinary	(264)	(264)
29-Jun-20	The Vanguard Group, Inc.	BUY	190.82	Ordinary	69	69
30-Jun-20	The Vanguard Group, Inc.	BUY	188.93	Ordinary	1,494	1,494
30-Jun-20	The Vanguard Group, Inc.	SELL	190.25	Ordinary	(370)	(370)
2-Jul-20	The Vanguard Group, Inc.	BUY	192.69	Ordinary	32	32
6-Jul-20	The Vanguard Group, Inc.	BUY	200.68	Ordinary	64	64
6-Jul-20	The Vanguard Group, Inc.	BUY	200.84	Ordinary	240	240
6-Jul-20	The Vanguard Group, Inc.	BUY	200.84	Ordinary	138	138
7-Jul-20	The Vanguard Group, Inc.	BUY	199.62	Ordinary	27	27
8-Jul-20	The Vanguard Group, Inc.	BUY	193.12	Ordinary	32	32
10-Jul-20	The Vanguard Group, Inc.	BUY	191.42	Ordinary	19	19
10-Jul-20	The Vanguard Group, Inc.	BUY	190.47	Ordinary	28	28
14-Jul-20	The Vanguard Group, Inc.	BUY	189.13	Ordinary	195	195
15-Jul-20	The Vanguard Group, Inc.	SELL	190.53	Ordinary	(708)	(708)
15-Jul-20	The Vanguard Group, Inc.	SELL	190.53	Ordinary	(236)	(236)
16-Jul-20	The Vanguard Group, Inc.	BUY	192.87	Ordinary	1,533	1,533
16-Jul-20	The Vanguard Group, Inc.	SELL	192.87	Ordinary	(61)	(61)
21-Jul-20	The Vanguard Group, Inc.	BUY	194.90	Ordinary	746	746
29-Jul-20	The Vanguard Group, Inc.	BUY	192.99	Ordinary	92	92
29-Jul-20	The Vanguard Group, Inc.	BUY	192.99	Ordinary	728	728
29-Jul-20	The Vanguard Group, Inc.	SELL	193.70	Ordinary	(546)	(546)
30-Jul-20	The Vanguard Group, Inc.	BUY	193.21	Ordinary	22	22
30-Jul-20	The Vanguard Group, Inc.	BUY	192.83	Ordinary	46	46
31-Jul-20	The Vanguard Group, Inc.	BUY	190.22	Ordinary	28	28
31-Jul-20	The Vanguard Group, Inc.	BUY	190.22	Ordinary	66	66
3-Aug-20	The Vanguard Group, Inc.	BUY	198.89	Ordinary	369	369
4-Aug-20	The Vanguard Group, Inc.	BUY	197.88	Ordinary	28	28
4-Aug-20	The Vanguard Group, Inc.	BUY	197.98	Ordinary	69	69
6-Aug-20	The Vanguard Group, Inc.	BUY	191.25	Ordinary	46	46
11-Aug-20	The Vanguard Group, Inc.	BUY	194.01	Ordinary	703	703
12-Aug-20	The Vanguard Group, Inc.	BUY	199.76	Ordinary	28	28
13-Aug-20	The Vanguard Group, Inc.	BUY	197.92	Ordinary	31	31
13-Aug-20	The Vanguard Group, Inc.	SELL	198.02	Ordinary	(245)	(245)
13-Aug-20	The Vanguard Group, Inc.	SELL	198.02	Ordinary	(236)	(236)
17-Aug-20	The Vanguard Group, Inc.	BUY	198.49	Ordinary	666	666
17-Aug-20	The Vanguard Group, Inc.	BUY	198.49	Ordinary	888	888
17-Aug-20	The Vanguard Group, Inc.	BUY	198.49	Ordinary	480	480
17-Aug-20	The Vanguard Group, Inc.	BUY	198.49	Ordinary	46	46
18-Aug-20	The Vanguard Group, Inc.	BUY	217.74	Ordinary	573	573
18-Aug-20	The Vanguard Group, Inc.	BUY	217.92	Ordinary	2,560	2,560
18-Aug-20	The Vanguard Group, Inc.	BUY	217.92	Ordinary	288	288
18-Aug-20	The Vanguard Group, Inc.	SELL	217.92	Ordinary	(2,560)	(2,560)
19-Aug-20	The Vanguard Group, Inc.	SELL	210.00	Ordinary	(59)	(59)
20-Aug-20	The Vanguard Group, Inc.	BUY	209.48	Ordinary	93	93
20-Aug-20	The Vanguard Group, Inc.	BUY	209.08	Ordinary	2,276	2,276

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-Aug-20	The Vanguard Group, Inc.	BUY	209.48	Ordinary	168	168
20-Aug-20	The Vanguard Group, Inc.	BUY	209.48	Ordinary	46	46
21-Aug-20	The Vanguard Group, Inc.	SELL	206.22	Ordinary	(137)	(137)
21-Aug-20	The Vanguard Group, Inc.	BUY	206.22	Ordinary	31	31
25-Aug-20	The Vanguard Group, Inc.	BUY	203.07	Ordinary	508	508
26-Aug-20	The Vanguard Group, Inc.	SELL	200.17	Ordinary	(546)	(546)
27-Aug-20	The Vanguard Group, Inc.	BUY	198.87	Ordinary	370	370
27-Aug-20	The Vanguard Group, Inc.	BUY	198.87	Ordinary	504	504
28-Aug-20	The Vanguard Group, Inc.	BUY	194.80	Ordinary	31	31
31-Aug-20	The Vanguard Group, Inc.	BUY	192.92	Ordinary	2,945	2,945
31-Aug-20	The Vanguard Group, Inc.	BUY	192.92	Ordinary	101	101
1-Sep-20	The Vanguard Group, Inc.	BUY	190.93	Ordinary	25,611	25,611
1-Sep-20	The Vanguard Group, Inc.	SELL	190.93	Ordinary	(25,611)	(25,611)
2-Sep-20	The Vanguard Group, Inc.	BUY	191.81	Ordinary	735	735
2-Sep-20	The Vanguard Group, Inc.	BUY	192.59	Ordinary	240	240
2-Sep-20	The Vanguard Group, Inc.	BUY	192.59	Ordinary	69	69
2-Sep-20	The Vanguard Group, Inc.	SELL	190.50	Ordinary	(56)	(56)
3-Sep-20	The Vanguard Group, Inc.	BUY	197.31	Ordinary	33	33
3-Sep-20	The Vanguard Group, Inc.	BUY	197.30	Ordinary	114	114
3-Sep-20	The Vanguard Group, Inc.	BUY	194.29	Ordinary	240	240
3-Sep-20	The Vanguard Group, Inc.	BUY	193.92	Ordinary	2,853	2,853
4-Sep-20	The Vanguard Group, Inc.	BUY	193.65	Ordinary	12	12
4-Sep-20	The Vanguard Group, Inc.	BUY	193.65	Ordinary	832	832
4-Sep-20	The Vanguard Group, Inc.	BUY	189.51	Ordinary	240	240
8-Sep-20	The Vanguard Group, Inc.	BUY	192.24	Ordinary	22	22
9-Sep-20	The Vanguard Group, Inc.	BUY	189.23	Ordinary	31	31
10-Sep-20	The Vanguard Group, Inc.	SELL	190.00	Ordinary	(835)	(835)
11-Sep-20	The Vanguard Group, Inc.	BUY	192.02	Ordinary	18	18
11-Sep-20	The Vanguard Group, Inc.	BUY	188.30	Ordinary	9	9
11-Sep-20	The Vanguard Group, Inc.	BUY	192.02	Ordinary	115	115
11-Sep-20	The Vanguard Group, Inc.	BUY	191.34	Ordinary	360	360
14-Sep-20	The Vanguard Group, Inc.	SELL	193.57	Ordinary	(855)	(855)
15-Sep-20	The Vanguard Group, Inc.	SELL	193.82	Ordinary	(658)	(658)
16-Sep-20	The Vanguard Group, Inc.	BUY	196.67	Ordinary	46	46
17-Sep-20	The Vanguard Group, Inc.	BUY	194.37	Ordinary	33	33
17-Sep-20	The Vanguard Group, Inc.	BUY	194.37	Ordinary	22	22
17-Sep-20	The Vanguard Group, Inc.	SELL	194.37	Ordinary	(1,319)	(1,319)
18-Sep-20	The Vanguard Group, Inc.	SELL	191.83	Ordinary	(2,058)	(2,058)
18-Sep-20	The Vanguard Group, Inc.	SELL	191.47	Ordinary	(461)	(461)
21-Sep-20	The Vanguard Group, Inc.	BUY	192.21	Ordinary	201	201
23-Sep-20	The Vanguard Group, Inc.	BUY	202.24	Ordinary	36	36
23-Sep-20	The Vanguard Group, Inc.	SELL	195.95	Ordinary	(36)	(36)
24-Sep-20	The Vanguard Group, Inc.	SELL	202.17	Ordinary	(1,277)	(1,277)
25-Sep-20	The Vanguard Group, Inc.	BUY	202.50	Ordinary	14	14
25-Sep-20	The Vanguard Group, Inc.	BUY	202.95	Ordinary	69	69
29-Sep-20	The Vanguard Group, Inc.	SELL	202.71	Ordinary	(353)	(353)
29-Sep-20	The Vanguard Group, Inc.	BUY	201.79	Ordinary	25,989	25,989
29-Sep-20	The Vanguard Group, Inc.	SELL	201.79	Ordinary	(25,989)	(25,989)
30-Sep-20	The Vanguard Group, Inc.	SELL	198.00	Ordinary	(55)	(55)
2-Oct-20	The Vanguard Group, Inc.	BUY	197.25	Ordinary	20	20
2-Oct-20	The Vanguard Group, Inc.	BUY	198.06	Ordinary	444	444
5-Oct-20	The Vanguard Group, Inc.	BUY	199.05	Ordinary	244	244
5-Oct-20	The Vanguard Group, Inc.	BUY	200.01	Ordinary	46	46
6-Oct-20	The Vanguard Group, Inc.	BUY	196.07	Ordinary	38	38
6-Oct-20	The Vanguard Group, Inc.	BUY	195.10	Ordinary	69	69
7-Oct-20	The Vanguard Group, Inc.	BUY	198.32	Ordinary	115	115
9-Oct-20	The Vanguard Group, Inc.	BUY	210.18	Ordinary	390	390
9-Oct-20	The Vanguard Group, Inc.	BUY	210.18	Ordinary	962	962
9-Oct-20	The Vanguard Group, Inc.	BUY	210.18	Ordinary	370	370
9-Oct-20	The Vanguard Group, Inc.	BUY	210.18	Ordinary	720	720
9-Oct-20	The Vanguard Group, Inc.	BUY	210.18	Ordinary	46	46
9-Oct-20	The Vanguard Group, Inc.	BUY	210.18	Ordinary	69	69
12-Oct-20	The Vanguard Group, Inc.	BUY	212.78	Ordinary	1,235	1,235
13-Oct-20	The Vanguard Group, Inc.	BUY	214.44	Ordinary	38	38
13-Oct-20	The Vanguard Group, Inc.	SELL	214.44	Ordinary	(764)	(764)
14-Oct-20	The Vanguard Group, Inc.	BUY	215.60	Ordinary	227	227
14-Oct-20	The Vanguard Group, Inc.	SELL	215.60	Ordinary	(709)	(709)
14-Oct-20	The Vanguard Group, Inc.	SELL	212.88	Ordinary	(33)	(33)
19-Oct-20	The Vanguard Group, Inc.	BUY	217.80	Ordinary	76	76

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21-Oct-20	The Vanguard Group, Inc.	BUY	222.23	Ordinary	198	198
21-Oct-20	The Vanguard Group, Inc.	SELL	222.23	Ordinary	(492)	(492)
22-Oct-20	The Vanguard Group, Inc.	SELL	219.02	Ordinary	(708)	(708)
23-Oct-20	The Vanguard Group, Inc.	SELL	224.99	Ordinary	(94)	(94)
23-Oct-20	The Vanguard Group, Inc.	BUY	223.49	Ordinary	14	14
23-Oct-20	The Vanguard Group, Inc.	BUY	224.99	Ordinary	1,576	1,576
27-Oct-20	The Vanguard Group, Inc.	BUY	224.07	Ordinary	244	244
28-Oct-20	The Vanguard Group, Inc.	SELL	223.71	Ordinary	(8)	(8)
30-Oct-20	The Vanguard Group, Inc.	BUY	212.18	Ordinary	432	432
2-Nov-20	The Vanguard Group, Inc.	BUY	213.47	Ordinary	16	16
2-Nov-20	The Vanguard Group, Inc.	BUY	214.76	Ordinary	432	432
2-Nov-20	The Vanguard Group, Inc.	BUY	215.52	Ordinary	46	46
3-Nov-20	The Vanguard Group, Inc.	SELL	214.83	Ordinary	(1,342)	(1,342)
3-Nov-20	The Vanguard Group, Inc.	BUY	218.62	Ordinary	138	138
4-Nov-20	The Vanguard Group, Inc.	BUY	220.51	Ordinary	46	46
5-Nov-20	The Vanguard Group, Inc.	BUY	224.50	Ordinary	889	889
6-Nov-20	The Vanguard Group, Inc.	BUY	224.35	Ordinary	36	36
9-Nov-20	The Vanguard Group, Inc.	BUY	225.28	Ordinary	116	116
10-Nov-20	The Vanguard Group, Inc.	SELL	223.37	Ordinary	(252)	(252)
11-Nov-20	The Vanguard Group, Inc.	SELL	223.05	Ordinary	(12)	(12)
13-Nov-20	The Vanguard Group, Inc.	BUY	231.41	Ordinary	594	594
16-Nov-20	The Vanguard Group, Inc.	BUY	233.20	Ordinary	312	312
17-Nov-20	The Vanguard Group, Inc.	BUY	233.72	Ordinary	216	216
17-Nov-20	The Vanguard Group, Inc.	BUY	234.75	Ordinary	965	965
19-Nov-20	The Vanguard Group, Inc.	BUY	236.18	Ordinary	16	16
19-Nov-20	The Vanguard Group, Inc.	BUY	233.50	Ordinary	23	23
20-Nov-20	The Vanguard Group, Inc.	BUY	231.91	Ordinary	6	6
20-Nov-20	The Vanguard Group, Inc.	BUY	232.60	Ordinary	149	149
20-Nov-20	The Vanguard Group, Inc.	BUY	231.91	Ordinary	108	108
20-Nov-20	The Vanguard Group, Inc.	BUY	231.91	Ordinary	191	191
25-Nov-20	The Vanguard Group, Inc.	BUY	223.73	Ordinary	36	36
25-Nov-20	The Vanguard Group, Inc.	BUY	223.73	Ordinary	116	116
26-Nov-20	The Vanguard Group, Inc.	BUY	221.53	Ordinary	244	244
27-Nov-20	The Vanguard Group, Inc.	SELL	222.24	Ordinary	(5,173)	(5,173)
1-Dec-20	The Vanguard Group, Inc.	BUY	224.66	Ordinary	72	72
1-Dec-20	The Vanguard Group, Inc.	BUY	224.66	Ordinary	36	36
2-Dec-20	The Vanguard Group, Inc.	BUY	221.22	Ordinary	512	512
2-Dec-20	The Vanguard Group, Inc.	BUY	221.22	Ordinary	272	272
3-Dec-20	The Vanguard Group, Inc.	BUY	222.83	Ordinary	248	248
3-Dec-20	The Vanguard Group, Inc.	BUY	217.96	Ordinary	490	490
7-Dec-20	The Vanguard Group, Inc.	BUY	208.00	Ordinary	122	122
8-Dec-20	The Vanguard Group, Inc.	BUY	208.56	Ordinary	338	338
8-Dec-20	The Vanguard Group, Inc.	BUY	210.58	Ordinary	117	117
8-Dec-20	The Vanguard Group, Inc.	BUY	210.58	Ordinary	531	531
9-Dec-20	The Vanguard Group, Inc.	BUY	208.81	Ordinary	177	177
10-Dec-20	The Vanguard Group, Inc.	BUY	207.13	Ordinary	156	156
10-Dec-20	The Vanguard Group, Inc.	SELL	209.19	Ordinary	(13)	(13)
11-Dec-20	The Vanguard Group, Inc.	BUY	199.55	Ordinary	234	234
11-Dec-20	The Vanguard Group, Inc.	SELL	199.55	Ordinary	(507)	(507)
11-Dec-20	The Vanguard Group, Inc.	SELL	199.55	Ordinary	(1,117)	(1,117)
14-Dec-20	The Vanguard Group, Inc.	BUY	195.72	Ordinary	72	72
15-Dec-20	The Vanguard Group, Inc.	BUY	197.82	Ordinary	413	413
16-Dec-20	The Vanguard Group, Inc.	BUY	196.73	Ordinary	122	122
17-Dec-20	The Vanguard Group, Inc.	SELL	196.73	Ordinary	(1,596)	(1,596)
18-Dec-20	The Vanguard Group, Inc.	BUY	198.48	Ordinary	227	227
18-Dec-20	The Vanguard Group, Inc.	BUY	198.48	Ordinary	121	121
18-Dec-20	The Vanguard Group, Inc.	SELL	198.56	Ordinary	(749)	(749)
18-Dec-20	The Vanguard Group, Inc.	SELL	198.56	Ordinary	(922)	(922)
18-Dec-20	The Vanguard Group, Inc.	BUY	198.60	Ordinary	196	196
18-Dec-20	The Vanguard Group, Inc.	BUY	198.60	Ordinary	49	49
18-Dec-20	The Vanguard Group, Inc.	SELL	198.56	Ordinary	(553)	(553)
18-Dec-20	The Vanguard Group, Inc.	SELL	198.56	Ordinary	(2,225)	(2,225)
21-Dec-20	The Vanguard Group, Inc.	BUY	193.16	Ordinary	121	121
21-Dec-20	The Vanguard Group, Inc.	SELL	193.16	Ordinary	(1,168)	(1,168)
22-Dec-20	The Vanguard Group, Inc.	BUY	191.70	Ordinary	188	188
22-Dec-20	The Vanguard Group, Inc.	BUY	191.70	Ordinary	295	295
22-Dec-20	The Vanguard Group, Inc.	SELL	192.11	Ordinary	(2,655)	(2,655)
23-Dec-20	The Vanguard Group, Inc.	BUY	193.30	Ordinary	626	626
23-Dec-20	The Vanguard Group, Inc.	SELL	193.42	Ordinary	(2,740)	(2,740)

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24-Dec-20	The Vanguard Group, Inc.	BUY	192.00	Ordinary	40	40
24-Dec-20	The Vanguard Group, Inc.	BUY	192.00	Ordinary	121	121
24-Dec-20	The Vanguard Group, Inc.	BUY	192.51	Ordinary	1,386	1,386
30-Dec-20	The Vanguard Group, Inc.	BUY	191.96	Ordinary	80	80
30-Dec-20	The Vanguard Group, Inc.	SELL	191.96	Ordinary	(892)	(892)
30-Dec-20	The Vanguard Group, Inc.	BUY	191.61	Ordinary	23	23
31-Dec-20	The Vanguard Group, Inc.	SELL	189.01	Ordinary	(805)	(805)
31-Dec-20	The Vanguard Group, Inc.	SELL	189.27	Ordinary	(896)	(896)
31-Dec-20	The Vanguard Group, Inc.	BUY	189.27	Ordinary	896	896
31-Dec-20	The Vanguard Group, Inc.	BUY	189.00	Ordinary	77	77
4-Jan-21	The Vanguard Group, Inc.	BUY	189.77	Ordinary	678	678
5-Jan-21	The Vanguard Group, Inc.	BUY	188.60	Ordinary	121	121
5-Jan-21	The Vanguard Group, Inc.	BUY	188.95	Ordinary	282	282
5-Jan-21	The Vanguard Group, Inc.	BUY	188.95	Ordinary	195	195
5-Jan-21	The Vanguard Group, Inc.	BUY	188.95	Ordinary	234	234
5-Jan-21	The Vanguard Group, Inc.	SELL	189.01	Ordinary	(41)	(41)
6-Jan-21	The Vanguard Group, Inc.	BUY	184.98	Ordinary	40	40
6-Jan-21	The Vanguard Group, Inc.	BUY	185.66	Ordinary	236	236
6-Jan-21	The Vanguard Group, Inc.	SELL	186.85	Ordinary	(2,752)	(2,752)
6-Jan-21	The Vanguard Group, Inc.	SELL	186.85	Ordinary	(14)	(14)
7-Jan-21	The Vanguard Group, Inc.	BUY	183.46	Ordinary	1,175	1,175
7-Jan-21	The Vanguard Group, Inc.	BUY	183.46	Ordinary	156	156
7-Jan-21	The Vanguard Group, Inc.	BUY	183.46	Ordinary	1,062	1,062
7-Jan-21	The Vanguard Group, Inc.	BUY	183.46	Ordinary	46	46
8-Jan-21	The Vanguard Group, Inc.	BUY	185.24	Ordinary	440	440
8-Jan-21	The Vanguard Group, Inc.	BUY	185.24	Ordinary	651	651
8-Jan-21	The Vanguard Group, Inc.	BUY	185.41	Ordinary	705	705
8-Jan-21	The Vanguard Group, Inc.	BUY	185.41	Ordinary	312	312
8-Jan-21	The Vanguard Group, Inc.	BUY	185.41	Ordinary	828	828
11-Jan-21	The Vanguard Group, Inc.	BUY	182.90	Ordinary	121	121
12-Jan-21	The Vanguard Group, Inc.	BUY	180.38	Ordinary	40	40
12-Jan-21	The Vanguard Group, Inc.	BUY	180.28	Ordinary	177	177
12-Jan-21	The Vanguard Group, Inc.	BUY	180.28	Ordinary	472	472
13-Jan-21	The Vanguard Group, Inc.	BUY	180.00	Ordinary	605	605
13-Jan-21	The Vanguard Group, Inc.	BUY	180.69	Ordinary	41	41
13-Jan-21	The Vanguard Group, Inc.	BUY	180.83	Ordinary	195	195
13-Jan-21	The Vanguard Group, Inc.	BUY	180.83	Ordinary	483	483
14-Jan-21	The Vanguard Group, Inc.	BUY	188.86	Ordinary	141	141
14-Jan-21	The Vanguard Group, Inc.	BUY	188.86	Ordinary	156	156
18-Jan-21	The Vanguard Group, Inc.	BUY	191.62	Ordinary	26	26
18-Jan-21	The Vanguard Group, Inc.	BUY	191.22	Ordinary	121	121
18-Jan-21	The Vanguard Group, Inc.	BUY	191.62	Ordinary	1,171	1,171
19-Jan-21	The Vanguard Group, Inc.	BUY	195.65	Ordinary	41	41
19-Jan-21	The Vanguard Group, Inc.	BUY	195.65	Ordinary	1,247	1,247
21-Jan-21	The Vanguard Group, Inc.	BUY	196.37	Ordinary	276	276
21-Jan-21	The Vanguard Group, Inc.	BUY	196.37	Ordinary	531	531
22-Jan-21	The Vanguard Group, Inc.	BUY	197.90	Ordinary	82	82
22-Jan-21	The Vanguard Group, Inc.	BUY	197.90	Ordinary	242	242
22-Jan-21	The Vanguard Group, Inc.	BUY	197.90	Ordinary	747	747
22-Jan-21	The Vanguard Group, Inc.	BUY	197.94	Ordinary	46	46
22-Jan-21	The Vanguard Group, Inc.	SELL	196.67	Ordinary	(10)	(10)
25-Jan-21	The Vanguard Group, Inc.	BUY	198.98	Ordinary	621	621
27-Jan-21	The Vanguard Group, Inc.	BUY	201.55	Ordinary	121	121
27-Jan-21	The Vanguard Group, Inc.	BUY	201.55	Ordinary	164	164
27-Jan-21	The Vanguard Group, Inc.	BUY	201.90	Ordinary	2,044	2,044
28-Jan-21	The Vanguard Group, Inc.	BUY	195.60	Ordinary	41	41
28-Jan-21	The Vanguard Group, Inc.	BUY	195.60	Ordinary	857	857
28-Jan-21	The Vanguard Group, Inc.	BUY	196.54	Ordinary	414	414
28-Jan-21	The Vanguard Group, Inc.	BUY	196.54	Ordinary	46	46
28-Jan-21	The Vanguard Group, Inc.	SELL	198.11	Ordinary	(22)	(22)
29-Jan-21	The Vanguard Group, Inc.	BUY	197.44	Ordinary	220	220
29-Jan-21	The Vanguard Group, Inc.	BUY	197.44	Ordinary	82	82
29-Jan-21	The Vanguard Group, Inc.	BUY	197.44	Ordinary	129	129
29-Jan-21	The Vanguard Group, Inc.	BUY	196.74	Ordinary	235	235
29-Jan-21	The Vanguard Group, Inc.	BUY	196.74	Ordinary	414	414
29-Jan-21	The Vanguard Group, Inc.	BUY	196.74	Ordinary	177	177
1-Feb-21	The Vanguard Group, Inc.	BUY	200.68	Ordinary	3	3
1-Feb-21	The Vanguard Group, Inc.	SELL	200.68	Ordinary	(369)	(369)
3-Feb-21	The Vanguard Group, Inc.	BUY	207.80	Ordinary	33	33

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3-Feb-21	The Vanguard Group, Inc.	BUY	204.00	Ordinary	18	18
3-Feb-21	The Vanguard Group, Inc.	BUY	207.64	Ordinary	69	69
3-Feb-21	The Vanguard Group, Inc.	SELL	204.00	Ordinary	(28)	(28)
4-Feb-21	The Vanguard Group, Inc.	BUY	205.79	Ordinary	120	120
4-Feb-21	The Vanguard Group, Inc.	BUY	207.18	Ordinary	414	414
5-Feb-21	The Vanguard Group, Inc.	SELL	208.08	Ordinary	(259)	(259)
5-Feb-21	The Vanguard Group, Inc.	BUY	208.11	Ordinary	41	41
5-Feb-21	The Vanguard Group, Inc.	BUY	208.12	Ordinary	115	115
5-Feb-21	The Vanguard Group, Inc.	BUY	208.12	Ordinary	69	69
10-Feb-21	The Vanguard Group, Inc.	BUY	206.84	Ordinary	82	82
10-Feb-21	The Vanguard Group, Inc.	BUY	206.84	Ordinary	157	157
10-Feb-21	The Vanguard Group, Inc.	BUY	206.29	Ordinary	94	94
10-Feb-21	The Vanguard Group, Inc.	BUY	206.29	Ordinary	207	207
10-Feb-21	The Vanguard Group, Inc.	BUY	206.29	Ordinary	236	236
10-Feb-21	The Vanguard Group, Inc.	BUY	206.29	Ordinary	826	826
10-Feb-21	The Vanguard Group, Inc.	BUY	206.29	Ordinary	46	46
11-Feb-21	The Vanguard Group, Inc.	BUY	205.36	Ordinary	41	41
11-Feb-21	The Vanguard Group, Inc.	BUY	205.36	Ordinary	965	965
11-Feb-21	The Vanguard Group, Inc.	BUY	205.40	Ordinary	376	376
11-Feb-21	The Vanguard Group, Inc.	BUY	205.40	Ordinary	552	552
11-Feb-21	The Vanguard Group, Inc.	BUY	205.40	Ordinary	236	236
11-Feb-21	The Vanguard Group, Inc.	BUY	205.40	Ordinary	92	92
12-Feb-21	The Vanguard Group, Inc.	BUY	204.31	Ordinary	24	24
12-Feb-21	The Vanguard Group, Inc.	BUY	206.41	Ordinary	41	41
12-Feb-21	The Vanguard Group, Inc.	BUY	207.28	Ordinary	240	240
12-Feb-21	The Vanguard Group, Inc.	BUY	207.28	Ordinary	657	657
12-Feb-21	The Vanguard Group, Inc.	BUY	207.28	Ordinary	177	177
12-Feb-21	The Vanguard Group, Inc.	BUY	207.28	Ordinary	69	69
16-Feb-21	The Vanguard Group, Inc.	BUY	206.83	Ordinary	158	158
18-Feb-21	The Vanguard Group, Inc.	BUY	204.79	Ordinary	2	2
18-Feb-21	The Vanguard Group, Inc.	BUY	204.50	Ordinary	41	41
18-Feb-21	The Vanguard Group, Inc.	BUY	204.50	Ordinary	634	634
18-Feb-21	The Vanguard Group, Inc.	BUY	204.79	Ordinary	1,281	1,281
19-Feb-21	The Vanguard Group, Inc.	BUY	221.68	Ordinary	82	82
19-Feb-21	The Vanguard Group, Inc.	BUY	221.53	Ordinary	240	240
22-Feb-21	The Vanguard Group, Inc.	SELL	220.38	Ordinary	(244)	(244)
22-Feb-21	The Vanguard Group, Inc.	SELL	220.04	Ordinary	(1,403)	(1,403)
23-Feb-21	The Vanguard Group, Inc.	SELL	217.36	Ordinary	(364)	(364)
24-Feb-21	The Vanguard Group, Inc.	BUY	210.29	Ordinary	41	41
24-Feb-21	The Vanguard Group, Inc.	BUY	210.29	Ordinary	280	280
24-Feb-21	The Vanguard Group, Inc.	BUY	211.60	Ordinary	46	46
25-Feb-21	The Vanguard Group, Inc.	BUY	214.69	Ordinary	18	18
25-Feb-21	The Vanguard Group, Inc.	BUY	214.69	Ordinary	188	188
25-Feb-21	The Vanguard Group, Inc.	BUY	214.69	Ordinary	4	4
25-Feb-21	The Vanguard Group, Inc.	BUY	214.69	Ordinary	41	41
26-Feb-21	The Vanguard Group, Inc.	BUY	211.41	Ordinary	41	41
26-Feb-21	The Vanguard Group, Inc.	SELL	211.41	Ordinary	(2,050)	(2,050)
1-Mar-21	The Vanguard Group, Inc.	BUY	216.76	Ordinary	205	205
1-Mar-21	The Vanguard Group, Inc.	BUY	218.35	Ordinary	600	600
1-Mar-21	The Vanguard Group, Inc.	BUY	218.35	Ordinary	46	46
2-Mar-21	The Vanguard Group, Inc.	BUY	221.08	Ordinary	41	41
2-Mar-21	The Vanguard Group, Inc.	BUY	221.08	Ordinary	20	20
2-Mar-21	The Vanguard Group, Inc.	BUY	221.13	Ordinary	69	69
3-Mar-21	The Vanguard Group, Inc.	BUY	214.00	Ordinary	145	145
3-Mar-21	The Vanguard Group, Inc.	SELL	220.89	Ordinary	(22)	(22)
4-Mar-21	The Vanguard Group, Inc.	BUY	206.77	Ordinary	34	34
5-Mar-21	The Vanguard Group, Inc.	BUY	200.29	Ordinary	41	41
5-Mar-21	The Vanguard Group, Inc.	BUY	202.67	Ordinary	69	69
8-Mar-21	The Vanguard Group, Inc.	SELL	200.31	Ordinary	(2,757)	(2,757)
9-Mar-21	The Vanguard Group, Inc.	BUY	203.75	Ordinary	192	192
9-Mar-21	The Vanguard Group, Inc.	BUY	203.75	Ordinary	246	246
9-Mar-21	The Vanguard Group, Inc.	BUY	203.75	Ordinary	590	590
9-Mar-21	The Vanguard Group, Inc.	BUY	203.75	Ordinary	46	46
10-Mar-21	The Vanguard Group, Inc.	BUY	201.31	Ordinary	123	123
10-Mar-21	The Vanguard Group, Inc.	BUY	202.28	Ordinary	205	205
11-Mar-21	The Vanguard Group, Inc.	BUY	201.56	Ordinary	34	34
11-Mar-21	The Vanguard Group, Inc.	BUY	202.40	Ordinary	336	336
11-Mar-21	The Vanguard Group, Inc.	BUY	202.40	Ordinary	533	533
12-Mar-21	The Vanguard Group, Inc.	BUY	204.21	Ordinary	644	644

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15-Mar-21	The Vanguard Group, Inc.	BUY	205.56	Ordinary	141	141
15-Mar-21	The Vanguard Group, Inc.	BUY	206.51	Ordinary	46	46
16-Mar-21	The Vanguard Group, Inc.	BUY	209.19	Ordinary	41	41
17-Mar-21	The Vanguard Group, Inc.	SELL	210.00	Ordinary	(6)	(6)
17-Mar-21	The Vanguard Group, Inc.	SELL	210.00	Ordinary	(122)	(122)
17-Mar-21	The Vanguard Group, Inc.	SELL	210.00	Ordinary	(705)	(705)
17-Mar-21	The Vanguard Group, Inc.	BUY	209.94	Ordinary	287	287
18-Mar-21	The Vanguard Group, Inc.	SELL	204.48	Ordinary	(150)	(150)
19-Mar-21	The Vanguard Group, Inc.	BUY	202.94	Ordinary	37	37
19-Mar-21	The Vanguard Group, Inc.	SELL	202.98	Ordinary	(93)	(93)
19-Mar-21	The Vanguard Group, Inc.	SELL	202.98	Ordinary	(13)	(13)
19-Mar-21	The Vanguard Group, Inc.	SELL	202.98	Ordinary	(150)	(150)
19-Mar-21	The Vanguard Group, Inc.	SELL	202.98	Ordinary	(1,957)	(1,957)
19-Mar-21	The Vanguard Group, Inc.	SELL	202.98	Ordinary	(1,081)	(1,081)
19-Mar-21	The Vanguard Group, Inc.	SELL	202.98	Ordinary	(3,100)	(3,100)
22-Mar-21	The Vanguard Group, Inc.	BUY	205.53	Ordinary	38	38
22-Mar-21	The Vanguard Group, Inc.	BUY	205.44	Ordinary	96	96
22-Mar-21	The Vanguard Group, Inc.	BUY	205.44	Ordinary	92	92
23-Mar-21	The Vanguard Group, Inc.	BUY	205.43	Ordinary	34	34
24-Mar-21	The Vanguard Group, Inc.	BUY	213.08	Ordinary	162	162
25-Mar-21	The Vanguard Group, Inc.	BUY	214.40	Ordinary	1,268	1,268
26-Mar-21	The Vanguard Group, Inc.	BUY	212.43	Ordinary	39	39
29-Mar-21	The Vanguard Group, Inc.	BUY	213.70	Ordinary	24	24
29-Mar-21	The Vanguard Group, Inc.	BUY	211.64	Ordinary	165	165
29-Mar-21	The Vanguard Group, Inc.	BUY	212.68	Ordinary	376	376
30-Mar-21	The Vanguard Group, Inc.	BUY	209.00	Ordinary	150	150
31-Mar-21	The Vanguard Group, Inc.	BUY	210.97	Ordinary	149	149
31-Mar-21	The Vanguard Group, Inc.	SELL	210.97	Ordinary	(1,881)	(1,881)
31-Mar-21	The Vanguard Group, Inc.	BUY	211.78	Ordinary	750	750
31-Mar-21	The Vanguard Group, Inc.	BUY	211.78	Ordinary	69	69
1-Apr-21	The Vanguard Group, Inc.	BUY	210.95	Ordinary	2,606	2,606
6-Apr-21	The Vanguard Group, Inc.	BUY	214.03	Ordinary	480	480
6-Apr-21	The Vanguard Group, Inc.	BUY	214.03	Ordinary	525	525
7-Apr-21	The Vanguard Group, Inc.	BUY	215.53	Ordinary	36	36
7-Apr-21	The Vanguard Group, Inc.	BUY	215.53	Ordinary	39	39
7-Apr-21	The Vanguard Group, Inc.	BUY	215.53	Ordinary	14	14
7-Apr-21	The Vanguard Group, Inc.	BUY	215.72	Ordinary	5,282	5,282
7-Apr-21	The Vanguard Group, Inc.	BUY	216.21	Ordinary	46	46
7-Apr-21	The Vanguard Group, Inc.	BUY	216.21	Ordinary	46	46
8-Apr-21	The Vanguard Group, Inc.	BUY	215.58	Ordinary	263	263
8-Apr-21	The Vanguard Group, Inc.	BUY	215.58	Ordinary	2,866	2,866
8-Apr-21	The Vanguard Group, Inc.	BUY	217.02	Ordinary	69	69
9-Apr-21	The Vanguard Group, Inc.	BUY	216.52	Ordinary	360	360
9-Apr-21	The Vanguard Group, Inc.	BUY	216.89	Ordinary	600	600
9-Apr-21	The Vanguard Group, Inc.	BUY	216.89	Ordinary	252	252
13-Apr-21	The Vanguard Group, Inc.	BUY	221.41	Ordinary	39	39
13-Apr-21	The Vanguard Group, Inc.	BUY	221.41	Ordinary	282	282
13-Apr-21	The Vanguard Group, Inc.	BUY	222.02	Ordinary	450	450
13-Apr-21	The Vanguard Group, Inc.	BUY	222.02	Ordinary	92	92
14-Apr-21	The Vanguard Group, Inc.	BUY	222.92	Ordinary	336	336
14-Apr-21	The Vanguard Group, Inc.	BUY	222.92	Ordinary	450	450
15-Apr-21	The Vanguard Group, Inc.	BUY	221.00	Ordinary	275	275
15-Apr-21	The Vanguard Group, Inc.	BUY	224.51	Ordinary	94	94
15-Apr-21	The Vanguard Group, Inc.	BUY	224.51	Ordinary	244	244
16-Apr-21	The Vanguard Group, Inc.	BUY	223.69	Ordinary	174	174
16-Apr-21	The Vanguard Group, Inc.	BUY	223.69	Ordinary	152	152
16-Apr-21	The Vanguard Group, Inc.	BUY	223.69	Ordinary	2,394	2,394
16-Apr-21	The Vanguard Group, Inc.	BUY	223.69	Ordinary	1,464	1,464
19-Apr-21	The Vanguard Group, Inc.	SELL	221.26	Ordinary	(67)	(67)
19-Apr-21	The Vanguard Group, Inc.	BUY	221.26	Ordinary	39	39
19-Apr-21	The Vanguard Group, Inc.	BUY	221.30	Ordinary	9	9
19-Apr-21	The Vanguard Group, Inc.	BUY	220.80	Ordinary	376	376
19-Apr-21	The Vanguard Group, Inc.	BUY	220.80	Ordinary	750	750
19-Apr-21	The Vanguard Group, Inc.	BUY	220.80	Ordinary	46	46
21-Apr-21	The Vanguard Group, Inc.	BUY	217.57	Ordinary	28	28
21-Apr-21	The Vanguard Group, Inc.	BUY	221.69	Ordinary	36	36
21-Apr-21	The Vanguard Group, Inc.	BUY	221.69	Ordinary	640	640
21-Apr-21	The Vanguard Group, Inc.	BUY	221.69	Ordinary	440	440
21-Apr-21	The Vanguard Group, Inc.	SELL	217.57	Ordinary	(9)	(9)

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22-Apr-21	The Vanguard Group, Inc.	BUY	224.43	Ordinary	12	12
22-Apr-21	The Vanguard Group, Inc.	BUY	223.80	Ordinary	188	188
22-Apr-21	The Vanguard Group, Inc.	BUY	223.80	Ordinary	46	46
23-Apr-21	The Vanguard Group, Inc.	BUY	225.52	Ordinary	465	465
26-Apr-21	The Vanguard Group, Inc.	SELL	224.78	Ordinary	(126)	(126)
26-Apr-21	The Vanguard Group, Inc.	BUY	224.07	Ordinary	244	244
27-Apr-21	The Vanguard Group, Inc.	SELL	222.37	Ordinary	(88)	(88)
27-Apr-21	The Vanguard Group, Inc.	BUY	222.75	Ordinary	252	252
27-Apr-21	The Vanguard Group, Inc.	BUY	222.77	Ordinary	2,296	2,296
28-Apr-21	The Vanguard Group, Inc.	SELL	224.37	Ordinary	(27)	(27)
28-Apr-21	The Vanguard Group, Inc.	BUY	224.60	Ordinary	192	192
28-Apr-21	The Vanguard Group, Inc.	BUY	224.60	Ordinary	210	210
29-Apr-21	The Vanguard Group, Inc.	BUY	224.53	Ordinary	315	315
4-May-21	The Vanguard Group, Inc.	BUY	220.36	Ordinary	357	357
4-May-21	The Vanguard Group, Inc.	BUY	220.36	Ordinary	252	252
6-May-21	The Vanguard Group, Inc.	BUY	219.75	Ordinary	178	178
6-May-21	The Vanguard Group, Inc.	BUY	219.75	Ordinary	36	36
6-May-21	The Vanguard Group, Inc.	BUY	219.75	Ordinary	78	78
6-May-21	The Vanguard Group, Inc.	BUY	220.36	Ordinary	69	69
6-May-21	The Vanguard Group, Inc.	BUY	220.36	Ordinary	46	46
6-May-21	The Vanguard Group, Inc.	SELL	222.00	Ordinary	(5)	(5)
7-May-21	The Vanguard Group, Inc.	SELL	218.00	Ordinary	(112)	(112)
7-May-21	The Vanguard Group, Inc.	BUY	218.20	Ordinary	144	144
7-May-21	The Vanguard Group, Inc.	BUY	218.20	Ordinary	624	624
7-May-21	The Vanguard Group, Inc.	BUY	219.49	Ordinary	1,514	1,514
7-May-21	The Vanguard Group, Inc.	BUY	218.20	Ordinary	244	244
7-May-21	The Vanguard Group, Inc.	BUY	218.20	Ordinary	735	735
7-May-21	The Vanguard Group, Inc.	BUY	218.20	Ordinary	46	46
10-May-21	The Vanguard Group, Inc.	BUY	218.46	Ordinary	19	19
10-May-21	The Vanguard Group, Inc.	BUY	216.86	Ordinary	525	525
11-May-21	The Vanguard Group, Inc.	BUY	216.68	Ordinary	1,965	1,965
12-May-21	The Vanguard Group, Inc.	BUY	212.17	Ordinary	188	188
13-May-21	The Vanguard Group, Inc.	SELL	214.76	Ordinary	(671)	(671)
14-May-21	The Vanguard Group, Inc.	BUY	214.79	Ordinary	28	28
14-May-21	The Vanguard Group, Inc.	BUY	216.42	Ordinary	490	490
14-May-21	The Vanguard Group, Inc.	BUY	216.42	Ordinary	1,052	1,052
14-May-21	The Vanguard Group, Inc.	BUY	217.61	Ordinary	184	184
17-May-21	The Vanguard Group, Inc.	BUY	215.37	Ordinary	38	38
17-May-21	The Vanguard Group, Inc.	SELL	216.23	Ordinary	(2,301)	(2,301)
17-May-21	The Vanguard Group, Inc.	BUY	215.48	Ordinary	192	192
18-May-21	The Vanguard Group, Inc.	BUY	215.74	Ordinary	36	36
18-May-21	The Vanguard Group, Inc.	BUY	215.74	Ordinary	487	487
18-May-21	The Vanguard Group, Inc.	BUY	213.80	Ordinary	144	144
18-May-21	The Vanguard Group, Inc.	BUY	213.80	Ordinary	141	141
18-May-21	The Vanguard Group, Inc.	BUY	213.80	Ordinary	46	46
19-May-21	The Vanguard Group, Inc.	BUY	213.04	Ordinary	54	54
19-May-21	The Vanguard Group, Inc.	BUY	213.42	Ordinary	1,200	1,200
19-May-21	The Vanguard Group, Inc.	BUY	213.42	Ordinary	450	450
20-May-21	The Vanguard Group, Inc.	BUY	216.58	Ordinary	126	126
20-May-21	The Vanguard Group, Inc.	BUY	217.63	Ordinary	294	294
24-May-21	The Vanguard Group, Inc.	BUY	220.70	Ordinary	38	38
24-May-21	The Vanguard Group, Inc.	BUY	221.14	Ordinary	658	658
24-May-21	The Vanguard Group, Inc.	SELL	217.80	Ordinary	(10)	(10)
25-May-21	The Vanguard Group, Inc.	BUY	223.37	Ordinary	1,357	1,357
26-May-21	The Vanguard Group, Inc.	BUY	224.25	Ordinary	192	192
27-May-21	The Vanguard Group, Inc.	SELL	225.37	Ordinary	(746)	(746)
27-May-21	The Vanguard Group, Inc.	BUY	225.12	Ordinary	102	102
1-Jun-21	The Vanguard Group, Inc.	BUY	225.74	Ordinary	121	121
1-Jun-21	The Vanguard Group, Inc.	BUY	225.82	Ordinary	46	46
2-Jun-21	The Vanguard Group, Inc.	BUY	224.05	Ordinary	157	157
2-Jun-21	The Vanguard Group, Inc.	SELL	223.50	Ordinary	(350)	(350)
2-Jun-21	The Vanguard Group, Inc.	BUY	224.05	Ordinary	186	186
2-Jun-21	The Vanguard Group, Inc.	BUY	223.52	Ordinary	1,901	1,901
2-Jun-21	The Vanguard Group, Inc.	BUY	224.05	Ordinary	1,250	1,250
3-Jun-21	The Vanguard Group, Inc.	BUY	224.87	Ordinary	525	525
3-Jun-21	The Vanguard Group, Inc.	BUY	224.87	Ordinary	46	46
15-Jun-21	The Vanguard Group, Inc.	SELL	238.01	Ordinary	(1,826)	(1,826)
15-Jun-21	The Vanguard Group, Inc.	BUY	239.86	Ordinary	92	92
16-Jun-21	The Vanguard Group, Inc.	BUY	242.29	Ordinary	300	300

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17-Jun-21	The Vanguard Group, Inc.	BUY	245.01	Ordinary	94	94
17-Jun-21	The Vanguard Group, Inc.	BUY	245.01	Ordinary	750	750
18-Jun-21	The Vanguard Group, Inc.	SELL	246.91	Ordinary	(223)	(223)
18-Jun-21	The Vanguard Group, Inc.	BUY	246.72	Ordinary	119	119
18-Jun-21	The Vanguard Group, Inc.	SELL	246.91	Ordinary	(1,021)	(1,021)
18-Jun-21	The Vanguard Group, Inc.	SELL	246.91	Ordinary	(1,683)	(1,683)
18-Jun-21	The Vanguard Group, Inc.	SELL	246.91	Ordinary	(1,314)	(1,314)
21-Jun-21	The Vanguard Group, Inc.	BUY	242.23	Ordinary	115	115
22-Jun-21	The Vanguard Group, Inc.	BUY	247.05	Ordinary	138	138
22-Jun-21	The Vanguard Group, Inc.	BUY	247.05	Ordinary	368	368
22-Jun-21	The Vanguard Group, Inc.	BUY	247.05	Ordinary	450	450
23-Jun-21	The Vanguard Group, Inc.	BUY	248.75	Ordinary	81	81
23-Jun-21	The Vanguard Group, Inc.	BUY	246.55	Ordinary	138	138
23-Jun-21	The Vanguard Group, Inc.	BUY	246.55	Ordinary	46	46
24-Jun-21	The Vanguard Group, Inc.	BUY	246.26	Ordinary	600	600
29-Nov-18	Vanguard Investments Australia Ltd.	BUY	172.70	Ordinary	550	550
3-Dec-18	Vanguard Investments Australia Ltd.	BUY	173.00	Ordinary	650	650
3-Dec-18	Vanguard Investments Australia Ltd.	BUY	173.00	Ordinary	996	996
4-Dec-18	Vanguard Investments Australia Ltd.	BUY	169.96	Ordinary	9,027	9,027
7-Dec-18	Vanguard Investments Australia Ltd.	BUY	173.49	Ordinary	1,364	1,364
11-Dec-18	Vanguard Investments Australia Ltd.	BUY	170.48	Ordinary	980	980
11-Dec-18	Vanguard Investments Australia Ltd.	BUY	170.48	Ordinary	588	588
12-Dec-18	Vanguard Investments Australia Ltd.	BUY	170.44	Ordinary	40,835	40,835
14-Dec-18	Vanguard Investments Australia Ltd.	SELL	170.53	Ordinary	(294)	(294)
20-Dec-18	Vanguard Investments Australia Ltd.	SELL	169.73	Ordinary	(332)	(332)
21-Dec-18	Vanguard Investments Australia Ltd.	BUY	166.25	Ordinary	1,115	1,115
21-Dec-18	Vanguard Investments Australia Ltd.	BUY	166.25	Ordinary	2,524	2,524
21-Dec-18	Vanguard Investments Australia Ltd.	BUY	166.25	Ordinary	558	558
21-Dec-18	Vanguard Investments Australia Ltd.	BUY	166.25	Ordinary	316	316
21-Dec-18	Vanguard Investments Australia Ltd.	BUY	166.25	Ordinary	665	665
21-Dec-18	Vanguard Investments Australia Ltd.	BUY	166.25	Ordinary	2,021	2,021
21-Dec-18	Vanguard Investments Australia Ltd.	BUY	166.25	Ordinary	3,319	3,319
21-Dec-18	Vanguard Investments Australia Ltd.	BUY	166.25	Ordinary	5,195	5,195
27-Dec-18	Vanguard Investments Australia Ltd.	BUY	173.54	Ordinary	288	288
3-Jan-19	Vanguard Investments Australia Ltd.	BUY	178.17	Ordinary	796	796
4-Jan-19	Vanguard Investments Australia Ltd.	BUY	173.10	Ordinary	235	235
8-Jan-19	Vanguard Investments Australia Ltd.	BUY	178.00	Ordinary	480	480
11-Jan-19	Vanguard Investments Australia Ltd.	BUY	184.18	Ordinary	982	982
11-Jan-19	Vanguard Investments Australia Ltd.	BUY	184.07	Ordinary	576	576
18-Jan-19	Vanguard Investments Australia Ltd.	BUY	189.26	Ordinary	139	139
18-Jan-19	Vanguard Investments Australia Ltd.	BUY	189.14	Ordinary	367	367
18-Jan-19	Vanguard Investments Australia Ltd.	BUY	189.14	Ordinary	1,175	1,175
21-Jan-19	Vanguard Investments Australia Ltd.	SELL	188.80	Ordinary	(504)	(504)
22-Jan-19	Vanguard Investments Australia Ltd.	SELL	190.37	Ordinary	(629)	(629)
23-Jan-19	Vanguard Investments Australia Ltd.	BUY	191.41	Ordinary	1,453	1,453
23-Jan-19	Vanguard Investments Australia Ltd.	BUY	191.41	Ordinary	4,192	4,192
23-Jan-19	Vanguard Investments Australia Ltd.	BUY	191.41	Ordinary	1,428	1,428
29-Jan-19	Vanguard Investments Australia Ltd.	BUY	192.44	Ordinary	927	927
30-Jan-19	Vanguard Investments Australia Ltd.	BUY	192.49	Ordinary	1,175	1,175
30-Jan-19	Vanguard Investments Australia Ltd.	BUY	191.77	Ordinary	192	192
31-Jan-19	Vanguard Investments Australia Ltd.	BUY	193.44	Ordinary	5,718	5,718
1-Feb-19	Vanguard Investments Australia Ltd.	SELL	196.06	Ordinary	(372)	(372)
1-Feb-19	Vanguard Investments Australia Ltd.	BUY	194.26	Ordinary	1,674	1,674
4-Feb-19	Vanguard Investments Australia Ltd.	BUY	196.01	Ordinary	591	591
5-Feb-19	Vanguard Investments Australia Ltd.	SELL	194.47	Ordinary	(3,430)	(3,430)
13-Feb-19	Vanguard Investments Australia Ltd.	BUY	194.30	Ordinary	1,730	1,730
14-Feb-19	Vanguard Investments Australia Ltd.	SELL	195.72	Ordinary	(431)	(431)
14-Feb-19	Vanguard Investments Australia Ltd.	BUY	197.59	Ordinary	3,400	3,400
14-Feb-19	Vanguard Investments Australia Ltd.	SELL	195.72	Ordinary	(431)	(431)
19-Feb-19	Vanguard Investments Australia Ltd.	BUY	178.58	Ordinary	550	550
20-Feb-19	Vanguard Investments Australia Ltd.	SELL	173.45	Ordinary	(1,233)	(1,233)
25-Feb-19	Vanguard Investments Australia Ltd.	BUY	172.47	Ordinary	1,652	1,652
26-Feb-19	Vanguard Investments Australia Ltd.	SELL	170.09	Ordinary	(1,733)	(1,733)
26-Feb-19	Vanguard Investments Australia Ltd.	BUY	170.65	Ordinary	510	510
5-Mar-19	Vanguard Investments Australia Ltd.	BUY	173.50	Ordinary	3,264	3,264
12-Mar-19	Vanguard Investments Australia Ltd.	SELL	177.53	Ordinary	(770)	(770)
15-Mar-19	Vanguard Investments Australia Ltd.	BUY	181.08	Ordinary	24	24
15-Mar-19	Vanguard Investments Australia Ltd.	BUY	181.06	Ordinary	624	624
15-Mar-19	Vanguard Investments Australia Ltd.	BUY	181.08	Ordinary	58	58

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
15-Mar-19	Vanguard Investments Australia Ltd.	BUY	181.06	Ordinary	1,520	1,520
15-Mar-19	Vanguard Investments Australia Ltd.	SELL	181.08	Ordinary	(389)	(389)
15-Mar-19	Vanguard Investments Australia Ltd.	BUY	181.08	Ordinary	36	36
15-Mar-19	Vanguard Investments Australia Ltd.	BUY	181.06	Ordinary	965	965
15-Mar-19	Vanguard Investments Australia Ltd.	BUY	181.08	Ordinary	43	43
15-Mar-19	Vanguard Investments Australia Ltd.	BUY	181.06	Ordinary	1,133	1,133
19-Mar-19	Vanguard Investments Australia Ltd.	BUY	180.43	Ordinary	3,679	3,679
19-Mar-19	Vanguard Investments Australia Ltd.	BUY	180.43	Ordinary	9,197	9,197
19-Mar-19	Vanguard Investments Australia Ltd.	BUY	180.43	Ordinary	3,679	3,679
19-Mar-19	Vanguard Investments Australia Ltd.	SELL	179.44	Ordinary	(381)	(381)
21-Mar-19	Vanguard Investments Australia Ltd.	SELL	176.69	Ordinary	(687)	(687)
22-Mar-19	Vanguard Investments Australia Ltd.	BUY	178.89	Ordinary	1,283	1,283
1-Apr-19	Vanguard Investments Australia Ltd.	BUY	174.14	Ordinary	118	118
1-Apr-19	Vanguard Investments Australia Ltd.	BUY	174.14	Ordinary	2,418	2,418
1-Apr-19	Vanguard Investments Australia Ltd.	SELL	174.14	Ordinary	(3,105)	(3,105)
1-Apr-19	Vanguard Investments Australia Ltd.	BUY	174.14	Ordinary	1,563	1,563
2-Apr-19	Vanguard Investments Australia Ltd.	BUY	175.11	Ordinary	1,006	1,006
2-Apr-19	Vanguard Investments Australia Ltd.	BUY	175.11	Ordinary	329	329
2-Apr-19	Vanguard Investments Australia Ltd.	BUY	175.11	Ordinary	1,437	1,437
2-Apr-19	Vanguard Investments Australia Ltd.	BUY	175.52	Ordinary	357	357
5-Apr-19	Vanguard Investments Australia Ltd.	BUY	170.16	Ordinary	853	853
8-Apr-19	Vanguard Investments Australia Ltd.	BUY	171.17	Ordinary	408	408
9-Apr-19	Vanguard Investments Australia Ltd.	SELL	172.60	Ordinary	(182)	(182)
9-Apr-19	Vanguard Investments Australia Ltd.	BUY	172.60	Ordinary	16,944	16,944
11-Apr-19	Vanguard Investments Australia Ltd.	BUY	168.86	Ordinary	836	836
12-Apr-19	Vanguard Investments Australia Ltd.	SELL	165.10	Ordinary	(157)	(157)
16-Apr-19	Vanguard Investments Australia Ltd.	BUY	180.76	Ordinary	3,199	3,199
30-Apr-19	Vanguard Investments Australia Ltd.	BUY	187.33	Ordinary	624	624
1-May-19	Vanguard Investments Australia Ltd.	BUY	189.46	Ordinary	1,348	1,348
1-May-19	Vanguard Investments Australia Ltd.	BUY	189.57	Ordinary	398	398
1-May-19	Vanguard Investments Australia Ltd.	BUY	189.57	Ordinary	674	674
1-May-19	Vanguard Investments Australia Ltd.	BUY	189.46	Ordinary	2,385	2,385
2-May-19	Vanguard Investments Australia Ltd.	SELL	191.32	Ordinary	(480)	(480)
6-May-19	Vanguard Investments Australia Ltd.	BUY	191.03	Ordinary	628	628
7-May-19	Vanguard Investments Australia Ltd.	SELL	191.00	Ordinary	(159)	(159)
10-May-19	Vanguard Investments Australia Ltd.	BUY	195.29	Ordinary	106	106
10-May-19	Vanguard Investments Australia Ltd.	BUY	195.29	Ordinary	266	266
10-May-19	Vanguard Investments Australia Ltd.	BUY	196.02	Ordinary	477	477
14-May-19	Vanguard Investments Australia Ltd.	SELL	193.02	Ordinary	(224)	(224)
16-May-19	Vanguard Investments Australia Ltd.	BUY	196.11	Ordinary	1,416	1,416
17-May-19	Vanguard Investments Australia Ltd.	BUY	200.98	Ordinary	530	530
21-May-19	Vanguard Investments Australia Ltd.	BUY	199.26	Ordinary	530	530
27-May-19	Vanguard Investments Australia Ltd.	SELL	197.52	Ordinary	(1,144)	(1,144)
28-May-19	Vanguard Investments Australia Ltd.	BUY	198.55	Ordinary	540	540
29-May-19	Vanguard Investments Australia Ltd.	SELL	197.97	Ordinary	(916)	(916)
30-May-19	Vanguard Investments Australia Ltd.	BUY	196.70	Ordinary	3,154	3,154
3-Jun-19	Vanguard Investments Australia Ltd.	SELL	198.40	Ordinary	(1,092)	(1,092)
3-Jun-19	Vanguard Investments Australia Ltd.	SELL	198.40	Ordinary	(598)	(598)
4-Jun-19	Vanguard Investments Australia Ltd.	BUY	194.39	Ordinary	540	540
6-Jun-19	Vanguard Investments Australia Ltd.	BUY	199.66	Ordinary	648	648
7-Jun-19	Vanguard Investments Australia Ltd.	BUY	200.58	Ordinary	2,704	2,704
12-Jun-19	Vanguard Investments Australia Ltd.	BUY	203.71	Ordinary	1,806	1,806
17-Jun-19	Vanguard Investments Australia Ltd.	BUY	201.83	Ordinary	432	432
21-Jun-19	Vanguard Investments Australia Ltd.	BUY	204.31	Ordinary	74	74
21-Jun-19	Vanguard Investments Australia Ltd.	BUY	204.31	Ordinary	513	513
21-Jun-19	Vanguard Investments Australia Ltd.	SELL	204.31	Ordinary	(177)	(177)
21-Jun-19	Vanguard Investments Australia Ltd.	BUY	204.31	Ordinary	135	135
21-Jun-19	Vanguard Investments Australia Ltd.	BUY	204.31	Ordinary	927	927
21-Jun-19	Vanguard Investments Australia Ltd.	BUY	204.31	Ordinary	384	384
21-Jun-19	Vanguard Investments Australia Ltd.	BUY	204.31	Ordinary	2,644	2,644
21-Jun-19	Vanguard Investments Australia Ltd.	BUY	204.31	Ordinary	324	324
25-Jun-19	Vanguard Investments Australia Ltd.	SELL	206.67	Ordinary	(816)	(816)
27-Jun-19	Vanguard Investments Australia Ltd.	SELL	206.45	Ordinary	(460)	(460)
27-Jun-19	Vanguard Investments Australia Ltd.	BUY	206.45	Ordinary	378	378
2-Jul-19	Vanguard Investments Australia Ltd.	BUY	211.99	Ordinary	636	636
8-Jul-19	Vanguard Investments Australia Ltd.	BUY	213.47	Ordinary	318	318
9-Jul-19	Vanguard Investments Australia Ltd.	BUY	214.95	Ordinary	318	318
9-Jul-19	Vanguard Investments Australia Ltd.	BUY	214.95	Ordinary	942	942
11-Jul-19	Vanguard Investments Australia Ltd.	BUY	221.58	Ordinary	187	187

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
11-Jul-19	Vanguard Investments Australia Ltd.	BUY	221.11	Ordinary	318	318
12-Jul-19	Vanguard Investments Australia Ltd.	SELL	221.48	Ordinary	(207)	(207)
15-Jul-19	Vanguard Investments Australia Ltd.	BUY	221.23	Ordinary	1,037	1,037
16-Jul-19	Vanguard Investments Australia Ltd.	SELL	221.06	Ordinary	(1,210)	(1,210)
16-Jul-19	Vanguard Investments Australia Ltd.	SELL	221.06	Ordinary	(994)	(994)
16-Jul-19	Vanguard Investments Australia Ltd.	BUY	221.84	Ordinary	501	501
16-Jul-19	Vanguard Investments Australia Ltd.	BUY	221.84	Ordinary	656	656
16-Jul-19	Vanguard Investments Australia Ltd.	BUY	221.28	Ordinary	636	636
16-Jul-19	Vanguard Investments Australia Ltd.	BUY	221.28	Ordinary	721	721
18-Jul-19	Vanguard Investments Australia Ltd.	SELL	221.74	Ordinary	(237)	(237)
19-Jul-19	Vanguard Investments Australia Ltd.	BUY	219.11	Ordinary	718	718
22-Jul-19	Vanguard Investments Australia Ltd.	SELL	219.11	Ordinary	(35,338)	(35,338)
23-Jul-19	Vanguard Investments Australia Ltd.	SELL	219.35	Ordinary	(462)	(462)
26-Jul-19	Vanguard Investments Australia Ltd.	SELL	222.29	Ordinary	(235)	(235)
30-Jul-19	Vanguard Investments Australia Ltd.	BUY	225.13	Ordinary	594	594
1-Aug-19	Vanguard Investments Australia Ltd.	SELL	220.13	Ordinary	(351)	(351)
2-Aug-19	Vanguard Investments Australia Ltd.	SELL	223.19	Ordinary	(769)	(769)
6-Aug-19	Vanguard Investments Australia Ltd.	BUY	209.93	Ordinary	477	477
6-Aug-19	Vanguard Investments Australia Ltd.	BUY	209.93	Ordinary	813	813
6-Aug-19	Vanguard Investments Australia Ltd.	BUY	209.93	Ordinary	477	477
7-Aug-19	Vanguard Investments Australia Ltd.	BUY	212.23	Ordinary	791	791
8-Aug-19	Vanguard Investments Australia Ltd.	BUY	210.39	Ordinary	594	594
8-Aug-19	Vanguard Investments Australia Ltd.	BUY	210.39	Ordinary	785	785
12-Aug-19	Vanguard Investments Australia Ltd.	BUY	210.43	Ordinary	583	583
13-Aug-19	Vanguard Investments Australia Ltd.	BUY	203.37	Ordinary	944	944
16-Aug-19	Vanguard Investments Australia Ltd.	BUY	209.43	Ordinary	1,474	1,474
19-Aug-19	Vanguard Investments Australia Ltd.	BUY	217.79	Ordinary	1,172	1,172
21-Aug-19	Vanguard Investments Australia Ltd.	BUY	215.36	Ordinary	763	763
22-Aug-19	Vanguard Investments Australia Ltd.	BUY	216.43	Ordinary	735	735
27-Aug-19	Vanguard Investments Australia Ltd.	BUY	211.08	Ordinary	22,940	22,940
27-Aug-19	Vanguard Investments Australia Ltd.	BUY	211.08	Ordinary	755	755
28-Aug-19	Vanguard Investments Australia Ltd.	BUY	213.59	Ordinary	1,018	1,018
30-Aug-19	Vanguard Investments Australia Ltd.	BUY	218.00	Ordinary	1,513	1,513
2-Sep-19	Vanguard Investments Australia Ltd.	BUY	215.81	Ordinary	1,188	1,188
3-Sep-19	Vanguard Investments Australia Ltd.	BUY	218.64	Ordinary	5,659	5,659
4-Sep-19	Vanguard Investments Australia Ltd.	BUY	215.92	Ordinary	815	815
5-Sep-19	Vanguard Investments Australia Ltd.	BUY	212.86	Ordinary	1,013	1,013
6-Sep-19	Vanguard Investments Australia Ltd.	SELL	215.99	Ordinary	(283)	(283)
10-Sep-19	Vanguard Investments Australia Ltd.	BUY	208.50	Ordinary	494	494
13-Sep-19	Vanguard Investments Australia Ltd.	BUY	211.68	Ordinary	329	329
13-Sep-19	Vanguard Investments Australia Ltd.	SELL	211.68	Ordinary	(212)	(212)
17-Sep-19	Vanguard Investments Australia Ltd.	SELL	209.30	Ordinary	(347)	(347)
17-Sep-19	Vanguard Investments Australia Ltd.	BUY	209.30	Ordinary	521	521
17-Sep-19	Vanguard Investments Australia Ltd.	BUY	209.30	Ordinary	1,026	1,026
18-Sep-19	Vanguard Investments Australia Ltd.	SELL	208.77	Ordinary	(478)	(478)
20-Sep-19	Vanguard Investments Australia Ltd.	BUY	208.16	Ordinary	561	561
20-Sep-19	Vanguard Investments Australia Ltd.	BUY	208.16	Ordinary	540	540
23-Sep-19	Vanguard Investments Australia Ltd.	BUY	207.18	Ordinary	810	810
24-Sep-19	Vanguard Investments Australia Ltd.	SELL	208.85	Ordinary	(651)	(651)
24-Sep-19	Vanguard Investments Australia Ltd.	SELL	208.85	Ordinary	(894)	(894)
25-Sep-19	Vanguard Investments Australia Ltd.	BUY	208.45	Ordinary	756	756
27-Sep-19	Vanguard Investments Australia Ltd.	BUY	207.37	Ordinary	648	648
2-Oct-19	Vanguard Investments Australia Ltd.	BUY	209.03	Ordinary	1,522	1,522
2-Oct-19	Vanguard Investments Australia Ltd.	BUY	209.03	Ordinary	452	452
2-Oct-19	Vanguard Investments Australia Ltd.	BUY	207.95	Ordinary	1,007	1,007
2-Oct-19	Vanguard Investments Australia Ltd.	SELL	207.95	Ordinary	(1,272)	(1,272)
3-Oct-19	Vanguard Investments Australia Ltd.	BUY	204.15	Ordinary	1,323	1,323
4-Oct-19	Vanguard Investments Australia Ltd.	BUY	206.83	Ordinary	1,125	1,125
4-Oct-19	Vanguard Investments Australia Ltd.	BUY	206.83	Ordinary	462	462
4-Oct-19	Vanguard Investments Australia Ltd.	BUY	206.83	Ordinary	901	901
11-Oct-19	Vanguard Investments Australia Ltd.	BUY	207.16	Ordinary	424	424
14-Oct-19	Vanguard Investments Australia Ltd.	BUY	208.52	Ordinary	7,648	7,648
16-Oct-19	Vanguard Investments Australia Ltd.	BUY	213.80	Ordinary	9,063	9,063
18-Oct-19	Vanguard Investments Australia Ltd.	BUY	208.40	Ordinary	1,493	1,493
18-Oct-19	Vanguard Investments Australia Ltd.	BUY	208.77	Ordinary	530	530
21-Oct-19	Vanguard Investments Australia Ltd.	BUY	211.36	Ordinary	569	569
22-Oct-19	Vanguard Investments Australia Ltd.	BUY	202.42	Ordinary	530	530
23-Oct-19	Vanguard Investments Australia Ltd.	SELL	201.13	Ordinary	(478)	(478)
23-Oct-19	Vanguard Investments Australia Ltd.	SELL	200.90	Ordinary	(2,305)	(2,305)

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
23-Oct-19	Vanguard Investments Australia Ltd.	SELL	201.13	Ordinary	(520)	(520)
23-Oct-19	Vanguard Investments Australia Ltd.	BUY	201.94	Ordinary	494	494
23-Oct-19	Vanguard Investments Australia Ltd.	BUY	201.94	Ordinary	624	624
28-Oct-19	Vanguard Investments Australia Ltd.	BUY	210.40	Ordinary	530	530
30-Oct-19	Vanguard Investments Australia Ltd.	BUY	211.29	Ordinary	1,833	1,833
30-Oct-19	Vanguard Investments Australia Ltd.	BUY	211.28	Ordinary	1,967	1,967
31-Oct-19	Vanguard Investments Australia Ltd.	BUY	211.54	Ordinary	762	762
31-Oct-19	Vanguard Investments Australia Ltd.	BUY	211.54	Ordinary	1,272	1,272
31-Oct-19	Vanguard Investments Australia Ltd.	BUY	211.48	Ordinary	1,819	1,819
31-Oct-19	Vanguard Investments Australia Ltd.	SELL	211.54	Ordinary	(636)	(636)
1-Nov-19	Vanguard Investments Australia Ltd.	SELL	213.93	Ordinary	(1,111)	(1,111)
1-Nov-19	Vanguard Investments Australia Ltd.	SELL	213.79	Ordinary	(7,042)	(7,042)
1-Nov-19	Vanguard Investments Australia Ltd.	BUY	213.93	Ordinary	641	641
4-Nov-19	Vanguard Investments Australia Ltd.	SELL	214.06	Ordinary	(8,896)	(8,896)
4-Nov-19	Vanguard Investments Australia Ltd.	BUY	213.62	Ordinary	1,330	1,330
5-Nov-19	Vanguard Investments Australia Ltd.	SELL	216.04	Ordinary	(525)	(525)
5-Nov-19	Vanguard Investments Australia Ltd.	SELL	216.04	Ordinary	(2,286)	(2,286)
5-Nov-19	Vanguard Investments Australia Ltd.	BUY	216.04	Ordinary	648	648
7-Nov-19	Vanguard Investments Australia Ltd.	SELL	214.00	Ordinary	(881)	(881)
7-Nov-19	Vanguard Investments Australia Ltd.	BUY	214.00	Ordinary	448	448
11-Nov-19	Vanguard Investments Australia Ltd.	SELL	218.32	Ordinary	(458)	(458)
11-Nov-19	Vanguard Investments Australia Ltd.	BUY	218.24	Ordinary	1,365	1,365
12-Nov-19	Vanguard Investments Australia Ltd.	SELL	221.03	Ordinary	(216)	(216)
12-Nov-19	Vanguard Investments Australia Ltd.	BUY	221.03	Ordinary	594	594
13-Nov-19	Vanguard Investments Australia Ltd.	BUY	219.68	Ordinary	159	159
14-Nov-19	Vanguard Investments Australia Ltd.	BUY	222.61	Ordinary	1,159	1,159
19-Nov-19	Vanguard Investments Australia Ltd.	SELL	227.39	Ordinary	(112)	(112)
19-Nov-19	Vanguard Investments Australia Ltd.	BUY	227.39	Ordinary	702	702
20-Nov-19	Vanguard Investments Australia Ltd.	SELL	222.00	Ordinary	(4,330)	(4,330)
20-Nov-19	Vanguard Investments Australia Ltd.	BUY	222.00	Ordinary	371	371
21-Nov-19	Vanguard Investments Australia Ltd.	BUY	222.62	Ordinary	1,113	1,113
22-Nov-19	Vanguard Investments Australia Ltd.	BUY	224.84	Ordinary	1,185	1,185
25-Nov-19	Vanguard Investments Australia Ltd.	BUY	224.82	Ordinary	1,092	1,092
26-Nov-19	Vanguard Investments Australia Ltd.	SELL	229.80	Ordinary	(727)	(727)
27-Nov-19	Vanguard Investments Australia Ltd.	BUY	231.04	Ordinary	1,317	1,317
29-Nov-19	Vanguard Investments Australia Ltd.	BUY	233.99	Ordinary	689	689
29-Nov-19	Vanguard Investments Australia Ltd.	BUY	233.99	Ordinary	648	648
2-Dec-19	Vanguard Investments Australia Ltd.	BUY	236.25	Ordinary	2,803	2,803
3-Dec-19	Vanguard Investments Australia Ltd.	BUY	231.53	Ordinary	809	809
4-Dec-19	Vanguard Investments Australia Ltd.	BUY	226.95	Ordinary	1,166	1,166
5-Dec-19	Vanguard Investments Australia Ltd.	BUY	228.70	Ordinary	871	871
9-Dec-19	Vanguard Investments Australia Ltd.	BUY	230.61	Ordinary	636	636
11-Dec-19	Vanguard Investments Australia Ltd.	BUY	228.16	Ordinary	1,025	1,025
11-Dec-19	Vanguard Investments Australia Ltd.	BUY	228.16	Ordinary	1,181	1,181
13-Dec-19	Vanguard Investments Australia Ltd.	BUY	225.10	Ordinary	540	540
17-Dec-19	Vanguard Investments Australia Ltd.	SELL	230.57	Ordinary	(2,242)	(2,242)
18-Dec-19	Vanguard Investments Australia Ltd.	BUY	235.70	Ordinary	3,119	3,119
18-Dec-19	Vanguard Investments Australia Ltd.	BUY	235.71	Ordinary	742	742
19-Dec-19	Vanguard Investments Australia Ltd.	BUY	237.66	Ordinary	1,360	1,360
30-Dec-19	Vanguard Investments Australia Ltd.	BUY	232.80	Ordinary	424	424
31-Dec-19	Vanguard Investments Australia Ltd.	BUY	224.73	Ordinary	842	842
31-Dec-19	Vanguard Investments Australia Ltd.	BUY	224.73	Ordinary	265	265
2-Jan-20	Vanguard Investments Australia Ltd.	BUY	225.32	Ordinary	636	636
3-Jan-20	Vanguard Investments Australia Ltd.	SELL	225.68	Ordinary	(3,872)	(3,872)
6-Jan-20	Vanguard Investments Australia Ltd.	BUY	224.03	Ordinary	385	385
7-Jan-20	Vanguard Investments Australia Ltd.	BUY	224.78	Ordinary	1,438	1,438
7-Jan-20	Vanguard Investments Australia Ltd.	BUY	225.96	Ordinary	318	318
8-Jan-20	Vanguard Investments Australia Ltd.	BUY	224.02	Ordinary	795	795
9-Jan-20	Vanguard Investments Australia Ltd.	SELL	229.61	Ordinary	(424)	(424)
13-Jan-20	Vanguard Investments Australia Ltd.	BUY	232.15	Ordinary	795	795
14-Jan-20	Vanguard Investments Australia Ltd.	BUY	232.67	Ordinary	646	646
15-Jan-20	Vanguard Investments Australia Ltd.	SELL	236.01	Ordinary	(1,005)	(1,005)
15-Jan-20	Vanguard Investments Australia Ltd.	BUY	235.83	Ordinary	384	384
21-Jan-20	Vanguard Investments Australia Ltd.	SELL	237.71	Ordinary	(2,090)	(2,090)
21-Jan-20	Vanguard Investments Australia Ltd.	SELL	237.71	Ordinary	(6,357)	(6,357)
21-Jan-20	Vanguard Investments Australia Ltd.	SELL	237.71	Ordinary	(2,268)	(2,268)
21-Jan-20	Vanguard Investments Australia Ltd.	SELL	238.23	Ordinary	(997)	(997)
21-Jan-20	Vanguard Investments Australia Ltd.	BUY	238.23	Ordinary	795	795
30-Jan-20	Vanguard Investments Australia Ltd.	BUY	238.31	Ordinary	780	780

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31-Jan-20	Vanguard Investments Australia Ltd.	BUY	240.82	Ordinary	444	444
3-Feb-20	Vanguard Investments Australia Ltd.	SELL	239.75	Ordinary	(289)	(289)
3-Feb-20	Vanguard Investments Australia Ltd.	SELL	239.36	Ordinary	(630)	(630)
7-Feb-20	Vanguard Investments Australia Ltd.	BUY	243.22	Ordinary	530	530
10-Feb-20	Vanguard Investments Australia Ltd.	BUY	244.76	Ordinary	938	938
11-Feb-20	Vanguard Investments Australia Ltd.	BUY	236.34	Ordinary	1,990	1,990
11-Feb-20	Vanguard Investments Australia Ltd.	BUY	236.47	Ordinary	1,060	1,060
17-Feb-20	Vanguard Investments Australia Ltd.	SELL	234.56	Ordinary	(950)	(950)
18-Feb-20	Vanguard Investments Australia Ltd.	SELL	227.47	Ordinary	(7,610)	(7,610)
26-Feb-20	Vanguard Investments Australia Ltd.	SELL	213.90	Ordinary	(233)	(233)
26-Feb-20	Vanguard Investments Australia Ltd.	BUY	212.96	Ordinary	848	848
27-Feb-20	Vanguard Investments Australia Ltd.	BUY	208.85	Ordinary	4,111	4,111
28-Feb-20	Vanguard Investments Australia Ltd.	SELL	207.59	Ordinary	(604)	(604)
28-Feb-20	Vanguard Investments Australia Ltd.	SELL	207.59	Ordinary	(902)	(902)
28-Feb-20	Vanguard Investments Australia Ltd.	BUY	207.59	Ordinary	810	810
3-Mar-20	Vanguard Investments Australia Ltd.	BUY	218.00	Ordinary	1,431	1,431
4-Mar-20	Vanguard Investments Australia Ltd.	BUY	207.50	Ordinary	832	832
4-Mar-20	Vanguard Investments Australia Ltd.	BUY	207.50	Ordinary	27	27
4-Mar-20	Vanguard Investments Australia Ltd.	BUY	207.50	Ordinary	901	901
5-Mar-20	Vanguard Investments Australia Ltd.	SELL	209.45	Ordinary	(146)	(146)
6-Mar-20	Vanguard Investments Australia Ltd.	SELL	205.00	Ordinary	(646)	(646)
9-Mar-20	Vanguard Investments Australia Ltd.	SELL	197.34	Ordinary	(317)	(317)
9-Mar-20	Vanguard Investments Australia Ltd.	BUY	197.34	Ordinary	2,263	2,263
9-Mar-20	Vanguard Investments Australia Ltd.	BUY	197.34	Ordinary	1,855	1,855
10-Mar-20	Vanguard Investments Australia Ltd.	BUY	197.07	Ordinary	2,825	2,825
11-Mar-20	Vanguard Investments Australia Ltd.	BUY	192.66	Ordinary	296	296
11-Mar-20	Vanguard Investments Australia Ltd.	BUY	189.02	Ordinary	1,060	1,060
11-Mar-20	Vanguard Investments Australia Ltd.	BUY	189.02	Ordinary	1,325	1,325
12-Mar-20	Vanguard Investments Australia Ltd.	BUY	178.49	Ordinary	5,726	5,726
12-Mar-20	Vanguard Investments Australia Ltd.	BUY	178.49	Ordinary	1,590	1,590
12-Mar-20	Vanguard Investments Australia Ltd.	BUY	178.49	Ordinary	901	901
13-Mar-20	Vanguard Investments Australia Ltd.	SELL	216.11	Ordinary	(611)	(611)
13-Mar-20	Vanguard Investments Australia Ltd.	BUY	216.11	Ordinary	2,245	2,245
13-Mar-20	Vanguard Investments Australia Ltd.	BUY	216.11	Ordinary	3,473	3,473
13-Mar-20	Vanguard Investments Australia Ltd.	BUY	216.11	Ordinary	1,590	1,590
16-Mar-20	Vanguard Investments Australia Ltd.	BUY	174.51	Ordinary	1,855	1,855
17-Mar-20	Vanguard Investments Australia Ltd.	SELL	174.96	Ordinary	(272)	(272)
17-Mar-20	Vanguard Investments Australia Ltd.	SELL	174.96	Ordinary	(3,993)	(3,993)
17-Mar-20	Vanguard Investments Australia Ltd.	SELL	172.33	Ordinary	(860)	(860)
17-Mar-20	Vanguard Investments Australia Ltd.	BUY	176.02	Ordinary	247	247
17-Mar-20	Vanguard Investments Australia Ltd.	BUY	172.33	Ordinary	1,325	1,325
18-Mar-20	Vanguard Investments Australia Ltd.	SELL	170.67	Ordinary	(978)	(978)
18-Mar-20	Vanguard Investments Australia Ltd.	SELL	170.67	Ordinary	(172)	(172)
18-Mar-20	Vanguard Investments Australia Ltd.	BUY	170.67	Ordinary	2,307	2,307
18-Mar-20	Vanguard Investments Australia Ltd.	BUY	170.67	Ordinary	1,590	1,590
19-Mar-20	Vanguard Investments Australia Ltd.	SELL	171.33	Ordinary	(192)	(192)
19-Mar-20	Vanguard Investments Australia Ltd.	BUY	171.33	Ordinary	1,219	1,219
20-Mar-20	Vanguard Investments Australia Ltd.	SELL	159.86	Ordinary	(192)	(192)
20-Mar-20	Vanguard Investments Australia Ltd.	SELL	159.86	Ordinary	(292)	(292)
20-Mar-20	Vanguard Investments Australia Ltd.	BUY	159.86	Ordinary	1,643	1,643
23-Mar-20	Vanguard Investments Australia Ltd.	BUY	159.41	Ordinary	742	742
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	140.00	Ordinary	69	69
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	140.00	Ordinary	4,525	4,525
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	140.00	Ordinary	1,140	1,140
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	140.00	Ordinary	4,937	4,937
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	140.00	Ordinary	7,242	7,242
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	140.00	Ordinary	792	792
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	140.00	Ordinary	1,115	1,115
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	140.00	Ordinary	824	824
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	140.00	Ordinary	1,761	1,761
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	140.00	Ordinary	9,824	9,824
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	140.00	Ordinary	95	95
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	140.00	Ordinary	10,484	10,484
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	182.17	Ordinary	780	780
26-Mar-20	Vanguard Investments Australia Ltd.	BUY	140.00	Ordinary	26,349	26,349
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	171.84	Ordinary	753	753
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	172.66	Ordinary	5	5
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	171.84	Ordinary	258	258
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	172.66	Ordinary	2	2

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-Mar-20	Vanguard Investments Australia Ltd.	BUY	171.84	Ordinary	1,261	1,261
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	172.66	Ordinary	9	9
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	171.84	Ordinary	147	147
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	172.66	Ordinary	1	1
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	171.84	Ordinary	136	136
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	172.66	Ordinary	1	1
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	171.84	Ordinary	103	103
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	172.66	Ordinary	1	1
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	171.84	Ordinary	2,091	2,091
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	172.66	Ordinary	14	14
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	171.84	Ordinary	724	724
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	172.66	Ordinary	5	5
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	171.84	Ordinary	2,180	2,180
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	172.66	Ordinary	15	15
27-Mar-20	Vanguard Investments Australia Ltd.	BUY	166.47	Ordinary	1,300	1,300
27-Mar-20	Vanguard Investments Australia Ltd.	SELL	166.47	Ordinary	(1,404)	(1,404)
30-Mar-20	Vanguard Investments Australia Ltd.	BUY	182.81	Ordinary	8,022	8,022
31-Mar-20	Vanguard Investments Australia Ltd.	SELL	187.45	Ordinary	(5,440)	(5,440)
31-Mar-20	Vanguard Investments Australia Ltd.	BUY	187.45	Ordinary	1,040	1,040
1-Apr-20	Vanguard Investments Australia Ltd.	BUY	195.15	Ordinary	6,659	6,659
1-Apr-20	Vanguard Investments Australia Ltd.	BUY	195.15	Ordinary	876	876
1-Apr-20	Vanguard Investments Australia Ltd.	BUY	195.15	Ordinary	10,480	10,480
1-Apr-20	Vanguard Investments Australia Ltd.	BUY	195.15	Ordinary	1,229	1,229
1-Apr-20	Vanguard Investments Australia Ltd.	BUY	195.15	Ordinary	1,715	1,715
1-Apr-20	Vanguard Investments Australia Ltd.	BUY	195.15	Ordinary	1,246	1,246
1-Apr-20	Vanguard Investments Australia Ltd.	BUY	195.15	Ordinary	2,935	2,935
1-Apr-20	Vanguard Investments Australia Ltd.	BUY	195.15	Ordinary	15,191	15,191
1-Apr-20	Vanguard Investments Australia Ltd.	BUY	195.15	Ordinary	137	137
1-Apr-20	Vanguard Investments Australia Ltd.	BUY	195.15	Ordinary	15,960	15,960
1-Apr-20	Vanguard Investments Australia Ltd.	BUY	195.50	Ordinary	741	741
1-Apr-20	Vanguard Investments Australia Ltd.	BUY	195.15	Ordinary	40,630	40,630
2-Apr-20	Vanguard Investments Australia Ltd.	BUY	190.00	Ordinary	1,927	1,927
2-Apr-20	Vanguard Investments Australia Ltd.	BUY	190.00	Ordinary	855	855
3-Apr-20	Vanguard Investments Australia Ltd.	SELL	182.02	Ordinary	(512)	(512)
3-Apr-20	Vanguard Investments Australia Ltd.	SELL	182.02	Ordinary	(255)	(255)
3-Apr-20	Vanguard Investments Australia Ltd.	BUY	182.02	Ordinary	480	480
7-Apr-20	Vanguard Investments Australia Ltd.	BUY	183.18	Ordinary	235	235
7-Apr-20	Vanguard Investments Australia Ltd.	BUY	183.18	Ordinary	1,995	1,995
8-Apr-20	Vanguard Investments Australia Ltd.	BUY	182.91	Ordinary	1,120	1,120
9-Apr-20	Vanguard Investments Australia Ltd.	SELL	189.50	Ordinary	(3,806)	(3,806)
9-Apr-20	Vanguard Investments Australia Ltd.	BUY	189.50	Ordinary	1,938	1,938
14-Apr-20	Vanguard Investments Australia Ltd.	SELL	197.56	Ordinary	(3,175)	(3,175)
15-Apr-20	Vanguard Investments Australia Ltd.	BUY	195.07	Ordinary	1,140	1,140
16-Apr-20	Vanguard Investments Australia Ltd.	BUY	188.30	Ordinary	293	293
16-Apr-20	Vanguard Investments Australia Ltd.	BUY	188.30	Ordinary	320	320
21-Apr-20	Vanguard Investments Australia Ltd.	BUY	182.88	Ordinary	233	233
21-Apr-20	Vanguard Investments Australia Ltd.	BUY	181.18	Ordinary	969	969
21-Apr-20	Vanguard Investments Australia Ltd.	BUY	181.18	Ordinary	1,140	1,140
22-Apr-20	Vanguard Investments Australia Ltd.	SELL	182.12	Ordinary	(6,848)	(6,848)
23-Apr-20	Vanguard Investments Australia Ltd.	SELL	179.34	Ordinary	(7,342)	(7,342)
23-Apr-20	Vanguard Investments Australia Ltd.	BUY	179.34	Ordinary	855	855
24-Apr-20	Vanguard Investments Australia Ltd.	SELL	179.26	Ordinary	(1,115)	(1,115)
28-Apr-20	Vanguard Investments Australia Ltd.	BUY	185.92	Ordinary	1,026	1,026
1-May-20	Vanguard Investments Australia Ltd.	SELL	179.95	Ordinary	(707)	(707)
1-May-20	Vanguard Investments Australia Ltd.	SELL	179.95	Ordinary	(187)	(187)
1-May-20	Vanguard Investments Australia Ltd.	BUY	179.95	Ordinary	1,140	1,140
1-May-20	Vanguard Investments Australia Ltd.	BUY	179.95	Ordinary	855	855
4-May-20	Vanguard Investments Australia Ltd.	BUY	182.48	Ordinary	1,596	1,596
5-May-20	Vanguard Investments Australia Ltd.	SELL	182.00	Ordinary	(715)	(715)
5-May-20	Vanguard Investments Australia Ltd.	SELL	182.00	Ordinary	(122)	(122)
5-May-20	Vanguard Investments Australia Ltd.	SELL	182.00	Ordinary	(115)	(115)
8-May-20	Vanguard Investments Australia Ltd.	BUY	181.66	Ordinary	56	56
12-May-20	Vanguard Investments Australia Ltd.	BUY	188.67	Ordinary	784	784
13-May-20	Vanguard Investments Australia Ltd.	BUY	190.98	Ordinary	840	840
19-May-20	Vanguard Investments Australia Ltd.	BUY	183.34	Ordinary	1,120	1,120
20-May-20	Vanguard Investments Australia Ltd.	BUY	186.41	Ordinary	896	896
20-May-20	Vanguard Investments Australia Ltd.	BUY	186.41	Ordinary	896	896
22-May-20	Vanguard Investments Australia Ltd.	BUY	186.04	Ordinary	672	672
25-May-20	Vanguard Investments Australia Ltd.	BUY	191.20	Ordinary	560	560

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
26-May-20	Vanguard Investments Australia Ltd.	SELL	193.35	Ordinary	(712)	(712)
26-May-20	Vanguard Investments Australia Ltd.	BUY	193.35	Ordinary	7,181	7,181
26-May-20	Vanguard Investments Australia Ltd.	BUY	193.35	Ordinary	840	840
27-May-20	Vanguard Investments Australia Ltd.	BUY	187.93	Ordinary	6,992	6,992
28-May-20	Vanguard Investments Australia Ltd.	SELL	193.46	Ordinary	(48)	(48)
28-May-20	Vanguard Investments Australia Ltd.	SELL	193.46	Ordinary	(2,413)	(2,413)
29-May-20	Vanguard Investments Australia Ltd.	SELL	191.17	Ordinary	(293)	(293)
29-May-20	Vanguard Investments Australia Ltd.	SELL	191.17	Ordinary	(320)	(320)
29-May-20	Vanguard Investments Australia Ltd.	SELL	193.01	Ordinary	(362)	(362)
29-May-20	Vanguard Investments Australia Ltd.	SELL	193.01	Ordinary	(914)	(914)
29-May-20	Vanguard Investments Australia Ltd.	BUY	193.01	Ordinary	840	840
4-Jun-20	Vanguard Investments Australia Ltd.	SELL	197.00	Ordinary	(2,036)	(2,036)
5-Jun-20	Vanguard Investments Australia Ltd.	BUY	192.46	Ordinary	840	840
5-Jun-20	Vanguard Investments Australia Ltd.	BUY	192.46	Ordinary	672	672
5-Jun-20	Vanguard Investments Australia Ltd.	SELL	192.46	Ordinary	(1,258)	(1,258)
9-Jun-20	Vanguard Investments Australia Ltd.	BUY	193.30	Ordinary	592	592
10-Jun-20	Vanguard Investments Australia Ltd.	SELL	194.33	Ordinary	(512)	(512)
10-Jun-20	Vanguard Investments Australia Ltd.	SELL	194.33	Ordinary	(1,678)	(1,678)
11-Jun-20	Vanguard Investments Australia Ltd.	SELL	194.07	Ordinary	(101)	(101)
11-Jun-20	Vanguard Investments Australia Ltd.	BUY	194.07	Ordinary	840	840
15-Jun-20	Vanguard Investments Australia Ltd.	BUY	187.67	Ordinary	1,100	1,100
16-Jun-20	Vanguard Investments Australia Ltd.	BUY	193.46	Ordinary	550	550
17-Jun-20	Vanguard Investments Australia Ltd.	BUY	195.70	Ordinary	825	825
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	194.74	Ordinary	2,142	2,142
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	194.74	Ordinary	2,942	2,942
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	194.74	Ordinary	211	211
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	194.74	Ordinary	414	414
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	194.74	Ordinary	279	279
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	194.74	Ordinary	584	584
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	194.74	Ordinary	3,409	3,409
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	194.74	Ordinary	37	37
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	194.74	Ordinary	2,869	2,869
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	194.74	Ordinary	12,290	12,290
19-Jun-20	Vanguard Investments Australia Ltd.	BUY	194.66	Ordinary	112	112
23-Jun-20	Vanguard Investments Australia Ltd.	SELL	190.00	Ordinary	(986)	(986)
24-Jun-20	Vanguard Investments Australia Ltd.	BUY	193.18	Ordinary	499	499
25-Jun-20	Vanguard Investments Australia Ltd.	BUY	189.10	Ordinary	1,334	1,334
26-Jun-20	Vanguard Investments Australia Ltd.	BUY	189.66	Ordinary	188	188
29-Jun-20	Vanguard Investments Australia Ltd.	BUY	189.19	Ordinary	47	47
6-Jul-20	Vanguard Investments Australia Ltd.	SELL	200.68	Ordinary	(31)	(31)
8-Jul-20	Vanguard Investments Australia Ltd.	SELL	193.12	Ordinary	(42,128)	(42,128)
10-Jul-20	Vanguard Investments Australia Ltd.	BUY	190.47	Ordinary	3,263	3,263
16-Jul-20	Vanguard Investments Australia Ltd.	SELL	190.85	Ordinary	(522)	(522)
24-Jul-20	Vanguard Investments Australia Ltd.	BUY	193.96	Ordinary	4,036	4,036
28-Jul-20	Vanguard Investments Australia Ltd.	BUY	191.55	Ordinary	520	520
30-Jul-20	Vanguard Investments Australia Ltd.	BUY	193.21	Ordinary	767	767
31-Jul-20	Vanguard Investments Australia Ltd.	BUY	190.22	Ordinary	1,695	1,695
3-Aug-20	Vanguard Investments Australia Ltd.	BUY	198.89	Ordinary	1,682	1,682
5-Aug-20	Vanguard Investments Australia Ltd.	BUY	192.28	Ordinary	885	885
7-Aug-20	Vanguard Investments Australia Ltd.	BUY	189.14	Ordinary	1,180	1,180
12-Aug-20	Vanguard Investments Australia Ltd.	SELL	199.76	Ordinary	(105)	(105)
12-Aug-20	Vanguard Investments Australia Ltd.	BUY	199.76	Ordinary	2,064	2,064
25-Aug-20	Vanguard Investments Australia Ltd.	BUY	201.75	Ordinary	885	885
31-Aug-20	Vanguard Investments Australia Ltd.	BUY	192.92	Ordinary	482	482
1-Sep-20	Vanguard Investments Australia Ltd.	BUY	190.02	Ordinary	32,698	32,698
1-Sep-20	Vanguard Investments Australia Ltd.	BUY	190.02	Ordinary	944	944
1-Sep-20	Vanguard Investments Australia Ltd.	BUY	190.02	Ordinary	137	137
4-Sep-20	Vanguard Investments Australia Ltd.	BUY	190.04	Ordinary	194	194
7-Sep-20	Vanguard Investments Australia Ltd.	BUY	190.80	Ordinary	767	767
8-Sep-20	Vanguard Investments Australia Ltd.	BUY	192.70	Ordinary	149	149
9-Sep-20	Vanguard Investments Australia Ltd.	BUY	189.23	Ordinary	1,062	1,062
10-Sep-20	Vanguard Investments Australia Ltd.	BUY	190.00	Ordinary	72	72
16-Sep-20	Vanguard Investments Australia Ltd.	BUY	197.05	Ordinary	295	295
16-Sep-20	Vanguard Investments Australia Ltd.	BUY	197.05	Ordinary	295	295
18-Sep-20	Vanguard Investments Australia Ltd.	SELL	191.83	Ordinary	(1,938)	(1,938)
18-Sep-20	Vanguard Investments Australia Ltd.	SELL	191.83	Ordinary	(773)	(773)
18-Sep-20	Vanguard Investments Australia Ltd.	BUY	191.47	Ordinary	295	295
18-Sep-20	Vanguard Investments Australia Ltd.	BUY	191.47	Ordinary	472	472
18-Sep-20	Vanguard Investments Australia Ltd.	SELL	191.83	Ordinary	(253)	(253)

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21-Sep-20	Vanguard Investments Australia Ltd.	BUY	192.21	Ordinary	174	174
24-Sep-20	Vanguard Investments Australia Ltd.	BUY	202.17	Ordinary	280	280
25-Sep-20	Vanguard Investments Australia Ltd.	BUY	201.74	Ordinary	580	580
29-Sep-20	Vanguard Investments Australia Ltd.	BUY	202.71	Ordinary	174	174
30-Sep-20	Vanguard Investments Australia Ltd.	BUY	198.00	Ordinary	4,348	4,348
30-Sep-20	Vanguard Investments Australia Ltd.	BUY	198.00	Ordinary	580	580
2-Oct-20	Vanguard Investments Australia Ltd.	BUY	198.32	Ordinary	501	501
2-Oct-20	Vanguard Investments Australia Ltd.	BUY	198.32	Ordinary	975	975
5-Oct-20	Vanguard Investments Australia Ltd.	BUY	199.05	Ordinary	870	870
6-Oct-20	Vanguard Investments Australia Ltd.	BUY	196.72	Ordinary	497	497
6-Oct-20	Vanguard Investments Australia Ltd.	BUY	196.07	Ordinary	580	580
6-Oct-20	Vanguard Investments Australia Ltd.	BUY	196.72	Ordinary	80	80
12-Oct-20	Vanguard Investments Australia Ltd.	BUY	212.80	Ordinary	102	102
13-Oct-20	Vanguard Investments Australia Ltd.	BUY	214.44	Ordinary	580	580
19-Oct-20	Vanguard Investments Australia Ltd.	SELL	217.80	Ordinary	(190)	(190)
19-Oct-20	Vanguard Investments Australia Ltd.	SELL	217.80	Ordinary	(3,887)	(3,887)
20-Oct-20	Vanguard Investments Australia Ltd.	BUY	222.82	Ordinary	3,306	3,306
22-Oct-20	Vanguard Investments Australia Ltd.	BUY	223.95	Ordinary	66	66
23-Oct-20	Vanguard Investments Australia Ltd.	BUY	224.99	Ordinary	580	580
27-Oct-20	Vanguard Investments Australia Ltd.	BUY	224.07	Ordinary	5,826	5,826
28-Oct-20	Vanguard Investments Australia Ltd.	SELL	222.88	Ordinary	(698)	(698)
28-Oct-20	Vanguard Investments Australia Ltd.	SELL	222.88	Ordinary	(1,296)	(1,296)
28-Oct-20	Vanguard Investments Australia Ltd.	SELL	222.88	Ordinary	(1,302)	(1,302)
28-Oct-20	Vanguard Investments Australia Ltd.	BUY	222.88	Ordinary	580	580
29-Oct-20	Vanguard Investments Australia Ltd.	SELL	217.93	Ordinary	(675)	(675)
29-Oct-20	Vanguard Investments Australia Ltd.	BUY	217.93	Ordinary	2,172	2,172
29-Oct-20	Vanguard Investments Australia Ltd.	BUY	217.93	Ordinary	520	520
30-Oct-20	Vanguard Investments Australia Ltd.	BUY	212.68	Ordinary	3,425	3,425
30-Oct-20	Vanguard Investments Australia Ltd.	BUY	212.68	Ordinary	1,876	1,876
30-Oct-20	Vanguard Investments Australia Ltd.	BUY	212.68	Ordinary	1,424	1,424
30-Oct-20	Vanguard Investments Australia Ltd.	SELL	212.18	Ordinary	(277)	(277)
30-Oct-20	Vanguard Investments Australia Ltd.	BUY	212.18	Ordinary	1,786	1,786
3-Nov-20	Vanguard Investments Australia Ltd.	BUY	217.37	Ordinary	580	580
4-Nov-20	Vanguard Investments Australia Ltd.	BUY	219.89	Ordinary	870	870
4-Nov-20	Vanguard Investments Australia Ltd.	BUY	219.89	Ordinary	68	68
5-Nov-20	Vanguard Investments Australia Ltd.	BUY	222.97	Ordinary	1,806	1,806
5-Nov-20	Vanguard Investments Australia Ltd.	BUY	222.97	Ordinary	244	244
5-Nov-20	Vanguard Investments Australia Ltd.	BUY	224.50	Ordinary	116	116
9-Nov-20	Vanguard Investments Australia Ltd.	SELL	225.28	Ordinary	(390)	(390)
10-Nov-20	Vanguard Investments Australia Ltd.	BUY	223.37	Ordinary	986	986
10-Nov-20	Vanguard Investments Australia Ltd.	SELL	223.37	Ordinary	(266)	(266)
11-Nov-20	Vanguard Investments Australia Ltd.	SELL	227.55	Ordinary	(1,679)	(1,679)
13-Nov-20	Vanguard Investments Australia Ltd.	BUY	231.41	Ordinary	986	986
13-Nov-20	Vanguard Investments Australia Ltd.	BUY	231.41	Ordinary	3,074	3,074
17-Nov-20	Vanguard Investments Australia Ltd.	BUY	233.72	Ordinary	580	580
20-Nov-20	Vanguard Investments Australia Ltd.	BUY	231.91	Ordinary	208	208
20-Nov-20	Vanguard Investments Australia Ltd.	BUY	231.91	Ordinary	104	104
23-Nov-20	Vanguard Investments Australia Ltd.	BUY	226.72	Ordinary	696	696
25-Nov-20	Vanguard Investments Australia Ltd.	BUY	223.73	Ordinary	1,682	1,682
26-Nov-20	Vanguard Investments Australia Ltd.	SELL	221.53	Ordinary	(3,492)	(3,492)
26-Nov-20	Vanguard Investments Australia Ltd.	BUY	221.53	Ordinary	10,026	10,026
27-Nov-20	Vanguard Investments Australia Ltd.	SELL	222.21	Ordinary	(395)	(395)
30-Nov-20	Vanguard Investments Australia Ltd.	SELL	221.35	Ordinary	(607)	(607)
30-Nov-20	Vanguard Investments Australia Ltd.	SELL	221.35	Ordinary	(1,489)	(1,489)
30-Nov-20	Vanguard Investments Australia Ltd.	SELL	221.35	Ordinary	(156)	(156)
1-Dec-20	Vanguard Investments Australia Ltd.	BUY	224.66	Ordinary	870	870
2-Dec-20	Vanguard Investments Australia Ltd.	BUY	221.22	Ordinary	928	928
3-Dec-20	Vanguard Investments Australia Ltd.	BUY	218.00	Ordinary	10,495	10,495
3-Dec-20	Vanguard Investments Australia Ltd.	BUY	218.00	Ordinary	151	151
3-Dec-20	Vanguard Investments Australia Ltd.	BUY	218.00	Ordinary	52	52
4-Dec-20	Vanguard Investments Australia Ltd.	BUY	214.81	Ordinary	580	580
9-Dec-20	Vanguard Investments Australia Ltd.	BUY	209.76	Ordinary	37	37
11-Dec-20	Vanguard Investments Australia Ltd.	BUY	199.52	Ordinary	754	754
11-Dec-20	Vanguard Investments Australia Ltd.	BUY	199.52	Ordinary	156	156
15-Dec-20	Vanguard Investments Australia Ltd.	BUY	196.89	Ordinary	580	580
16-Dec-20	Vanguard Investments Australia Ltd.	BUY	196.73	Ordinary	580	580
17-Dec-20	Vanguard Investments Australia Ltd.	BUY	198.75	Ordinary	754	754
22-Dec-20	Vanguard Investments Australia Ltd.	BUY	191.44	Ordinary	1,160	1,160
23-Dec-20	Vanguard Investments Australia Ltd.	BUY	193.27	Ordinary	92	92

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
4-Jan-21	Vanguard Investments Australia Ltd.	BUY	189.87	Ordinary	1,765	1,765
4-Jan-21	Vanguard Investments Australia Ltd.	BUY	189.87	Ordinary	580	580
5-Jan-21	Vanguard Investments Australia Ltd.	SELL	188.60	Ordinary	(206)	(206)
6-Jan-21	Vanguard Investments Australia Ltd.	BUY	184.98	Ordinary	696	696
6-Jan-21	Vanguard Investments Australia Ltd.	BUY	184.98	Ordinary	696	696
12-Jan-21	Vanguard Investments Australia Ltd.	BUY	180.38	Ordinary	110	110
14-Jan-21	Vanguard Investments Australia Ltd.	BUY	189.46	Ordinary	912	912
15-Jan-21	Vanguard Investments Australia Ltd.	SELL	190.78	Ordinary	(34)	(34)
19-Jan-21	Vanguard Investments Australia Ltd.	BUY	195.65	Ordinary	285	285
20-Jan-21	Vanguard Investments Australia Ltd.	BUY	196.09	Ordinary	104	104
21-Jan-21	Vanguard Investments Australia Ltd.	BUY	197.11	Ordinary	165	165
25-Jan-21	Vanguard Investments Australia Ltd.	SELL	198.98	Ordinary	(878)	(878)
27-Jan-21	Vanguard Investments Australia Ltd.	BUY	201.55	Ordinary	1,256	1,256
28-Jan-21	Vanguard Investments Australia Ltd.	BUY	195.60	Ordinary	2,560	2,560
28-Jan-21	Vanguard Investments Australia Ltd.	BUY	195.60	Ordinary	741	741
2-Feb-21	Vanguard Investments Australia Ltd.	BUY	203.14	Ordinary	812	812
3-Feb-21	Vanguard Investments Australia Ltd.	BUY	207.80	Ordinary	104	104
4-Feb-21	Vanguard Investments Australia Ltd.	BUY	205.79	Ordinary	413	413
5-Feb-21	Vanguard Investments Australia Ltd.	SELL	208.11	Ordinary	(226)	(226)
5-Feb-21	Vanguard Investments Australia Ltd.	BUY	208.11	Ordinary	174	174
5-Feb-21	Vanguard Investments Australia Ltd.	BUY	208.11	Ordinary	284	284
10-Feb-21	Vanguard Investments Australia Ltd.	BUY	206.84	Ordinary	754	754
11-Feb-21	Vanguard Investments Australia Ltd.	BUY	205.36	Ordinary	406	406
12-Feb-21	Vanguard Investments Australia Ltd.	BUY	206.41	Ordinary	1,402	1,402
16-Feb-21	Vanguard Investments Australia Ltd.	BUY	206.83	Ordinary	115	115
22-Feb-21	Vanguard Investments Australia Ltd.	SELL	220.38	Ordinary	(15,312)	(15,312)
22-Feb-21	Vanguard Investments Australia Ltd.	BUY	220.38	Ordinary	580	580
26-Feb-21	Vanguard Investments Australia Ltd.	SELL	211.49	Ordinary	(392)	(392)
26-Feb-21	Vanguard Investments Australia Ltd.	SELL	211.49	Ordinary	(304)	(304)
26-Feb-21	Vanguard Investments Australia Ltd.	SELL	211.41	Ordinary	(218)	(218)
26-Feb-21	Vanguard Investments Australia Ltd.	SELL	211.41	Ordinary	(1,085)	(1,085)
26-Feb-21	Vanguard Investments Australia Ltd.	BUY	211.41	Ordinary	2,518	2,518
26-Feb-21	Vanguard Investments Australia Ltd.	BUY	211.41	Ordinary	580	580
3-Mar-21	Vanguard Investments Australia Ltd.	BUY	214.00	Ordinary	1,160	1,160
3-Mar-21	Vanguard Investments Australia Ltd.	BUY	214.00	Ordinary	162	162
5-Mar-21	Vanguard Investments Australia Ltd.	BUY	200.29	Ordinary	580	580
8-Mar-21	Vanguard Investments Australia Ltd.	SELL	200.31	Ordinary	(499)	(499)
8-Mar-21	Vanguard Investments Australia Ltd.	BUY	200.31	Ordinary	156	156
9-Mar-21	Vanguard Investments Australia Ltd.	SELL	203.13	Ordinary	(499)	(499)
9-Mar-21	Vanguard Investments Australia Ltd.	BUY	203.13	Ordinary	177	177
10-Mar-21	Vanguard Investments Australia Ltd.	BUY	201.31	Ordinary	708	708
16-Mar-21	Vanguard Investments Australia Ltd.	BUY	209.19	Ordinary	116	116
17-Mar-21	Vanguard Investments Australia Ltd.	BUY	210.00	Ordinary	600	600
19-Mar-21	Vanguard Investments Australia Ltd.	SELL	202.98	Ordinary	(558)	(558)
30-Mar-21	Vanguard Investments Australia Ltd.	BUY	209.00	Ordinary	671	671
30-Mar-21	Vanguard Investments Australia Ltd.	BUY	209.00	Ordinary	793	793
31-Mar-21	Vanguard Investments Australia Ltd.	SELL	210.97	Ordinary	(2,049)	(2,049)
31-Mar-21	Vanguard Investments Australia Ltd.	SELL	210.97	Ordinary	(3,176)	(3,176)
31-Mar-21	Vanguard Investments Australia Ltd.	BUY	210.97	Ordinary	98	98
1-Apr-21	Vanguard Investments Australia Ltd.	IN SPECIE	210.66	Ordinary	(117,676)	(117,676)
6-Apr-21	Vanguard Investments Australia Ltd.	BUY	213.74	Ordinary	223	223
6-Apr-21	Vanguard Investments Australia Ltd.	BUY	213.74	Ordinary	1,655	1,655
6-Apr-21	Vanguard Investments Australia Ltd.	BUY	213.74	Ordinary	180	180
7-Apr-21	Vanguard Investments Australia Ltd.	BUY	214.77	Ordinary	407	407
7-Apr-21	Vanguard Investments Australia Ltd.	BUY	214.77	Ordinary	468	468
7-Apr-21	Vanguard Investments Australia Ltd.	BUY	215.53	Ordinary	720	720
8-Apr-21	Vanguard Investments Australia Ltd.	BUY	217.47	Ordinary	146	146
9-Apr-21	Vanguard Investments Australia Ltd.	BUY	216.52	Ordinary	1,320	1,320
9-Apr-21	Vanguard Investments Australia Ltd.	BUY	216.52	Ordinary	720	720
9-Apr-21	Vanguard Investments Australia Ltd.	BUY	216.52	Ordinary	480	480
9-Apr-21	Vanguard Investments Australia Ltd.	BUY	216.52	Ordinary	144	144
14-Apr-21	Vanguard Investments Australia Ltd.	BUY	224.19	Ordinary	48	48
14-Apr-21	Vanguard Investments Australia Ltd.	BUY	224.19	Ordinary	96	96
14-Apr-21	Vanguard Investments Australia Ltd.	BUY	224.19	Ordinary	144	144
19-Apr-21	Vanguard Investments Australia Ltd.	BUY	221.26	Ordinary	511	511
20-Apr-21	Vanguard Investments Australia Ltd.	SELL	218.44	Ordinary	(521)	(521)
20-Apr-21	Vanguard Investments Australia Ltd.	BUY	218.44	Ordinary	1,200	1,200
21-Apr-21	Vanguard Investments Australia Ltd.	BUY	221.69	Ordinary	742	742
21-Apr-21	Vanguard Investments Australia Ltd.	BUY	221.69	Ordinary	1,524	1,524

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-Apr-21	Vanguard Investments Australia Ltd.	BUY	222.37	Ordinary	1,559	1,559
28-Apr-21	Vanguard Investments Australia Ltd.	BUY	224.37	Ordinary	163	163
28-Apr-21	Vanguard Investments Australia Ltd.	BUY	224.37	Ordinary	1,248	1,248
29-Apr-21	Vanguard Investments Australia Ltd.	BUY	224.72	Ordinary	660	660
29-Apr-21	Vanguard Investments Australia Ltd.	BUY	224.72	Ordinary	192	192
3-May-21	Vanguard Investments Australia Ltd.	BUY	221.55	Ordinary	600	600
3-May-21	Vanguard Investments Australia Ltd.	BUY	221.55	Ordinary	144	144
5-May-21	Vanguard Investments Australia Ltd.	BUY	221.47	Ordinary	188	188
6-May-21	Vanguard Investments Australia Ltd.	BUY	219.75	Ordinary	900	900
7-May-21	Vanguard Investments Australia Ltd.	BUY	218.00	Ordinary	3,740	3,740
7-May-21	Vanguard Investments Australia Ltd.	BUY	218.00	Ordinary	48	48
10-May-21	Vanguard Investments Australia Ltd.	BUY	218.46	Ordinary	48	48
13-May-21	Vanguard Investments Australia Ltd.	BUY	213.36	Ordinary	833	833
13-May-21	Vanguard Investments Australia Ltd.	BUY	213.36	Ordinary	259	259
13-May-21	Vanguard Investments Australia Ltd.	BUY	213.36	Ordinary	125	125
13-May-21	Vanguard Investments Australia Ltd.	BUY	213.36	Ordinary	96	96
13-May-21	Vanguard Investments Australia Ltd.	BUY	213.36	Ordinary	144	144
14-May-21	Vanguard Investments Australia Ltd.	BUY	216.42	Ordinary	840	840
17-May-21	Vanguard Investments Australia Ltd.	SELL	215.37	Ordinary	(878)	(878)
17-May-21	Vanguard Investments Australia Ltd.	BUY	215.37	Ordinary	720	720
18-May-21	Vanguard Investments Australia Ltd.	BUY	215.74	Ordinary	720	720
19-May-21	Vanguard Investments Australia Ltd.	BUY	213.04	Ordinary	780	780
20-May-21	Vanguard Investments Australia Ltd.	IN SPECIE	216.58	Ordinary	(237,342)	(237,342)
20-May-21	Vanguard Investments Australia Ltd.	IN SPECIE	216.58	Ordinary	(2,016)	(2,016)
20-May-21	Vanguard Investments Australia Ltd.	BUY	216.58	Ordinary	177	177
20-May-21	Vanguard Investments Australia Ltd.	BUY	216.58	Ordinary	144	144
21-May-21	Vanguard Investments Australia Ltd.	BUY	217.10	Ordinary	1,200	1,200
21-May-21	Vanguard Investments Australia Ltd.	BUY	217.10	Ordinary	48	48
21-May-21	Vanguard Investments Australia Ltd.	BUY	217.10	Ordinary	336	336
25-May-21	Vanguard Investments Australia Ltd.	BUY	226.00	Ordinary	720	720
26-May-21	Vanguard Investments Australia Ltd.	BUY	224.14	Ordinary	48	48
26-May-21	Vanguard Investments Australia Ltd.	BUY	224.14	Ordinary	148	148
27-May-21	Vanguard Investments Australia Ltd.	SELL	225.37	Ordinary	(405)	(405)
31-May-21	Vanguard Investments Australia Ltd.	BUY	227.04	Ordinary	2,435	2,435
3-Jun-21	Vanguard Investments Australia Ltd.	BUY	224.49	Ordinary	48	48
8-Jun-21	Vanguard Investments Australia Ltd.	SELL	232.75	Ordinary	(113)	(113)
8-Jun-21	Vanguard Investments Australia Ltd.	BUY	232.75	Ordinary	720	720
9-Jun-21	Vanguard Investments Australia Ltd.	BUY	234.55	Ordinary	720	720
15-Jun-21	Vanguard Investments Australia Ltd.	BUY	239.76	Ordinary	48	48
18-Jun-21	Vanguard Investments Australia Ltd.	SELL	246.91	Ordinary	(163)	(163)
22-Jun-21	Vanguard Investments Australia Ltd.	BUY	246.85	Ordinary	236	236
22-Jun-21	Vanguard Investments Australia Ltd.	BUY	246.85	Ordinary	590	590
23-Jun-21	Vanguard Investments Australia Ltd.	BUY	247.30	Ordinary	96	96
24-Jun-21	Vanguard Investments Australia Ltd.	BUY	244.95	Ordinary	96	96
24-Jun-21	Vanguard Investments Australia Ltd.	BUY	244.95	Ordinary	298	298

This is Annexure A of 27 pages referred to in Form 605, Notice of ceasing to be a substantial holder.

Signature: 

Name: Shawn Acker

Capacity: Compliance Manager

Date: 29 June 2021