Form 603

Corporations Act 2001 Section 671B

Notice of initial substantial holder

To Company Name/Scheme	Woolworths Group Limited
ACN/ARSN	000 014 675
Details of substantial holder (1)	
Name	Vanguard Group (The Vanguard Group, Inc. and its controlled entities including those listed in Annexure A)
ACN/ARSN (if applicable)	N/A
The holder became a substantial holder on	29 July 2021

2. Details of voting power

The total number of votes attached to all the voting shares in the company or voting interests in the scheme that the substantial holder or an associate (2) had a relevant interest (3) in on the date the substantial holder became a substantial holder are as follows:

Class of securities (4)	Number of securities	Person's votes (5)	Voting power (6)
Ordinary	63,412,121	63,412,121	5.002%

3. Details of relevant interests

The nature of the relevant interest the substantial holder or an associate had in the following voting securities on the date the substantial holder became a substantial holder are as follows:

Holder of relevant interest	Nature of relevant interest (7)	Class and number of securities
Vanguard Group	Vanguard Group is the manager of various Mutual funds	Ordinary - 63,412,121
	and accounts and in that capacity has the power to dispose	-
	of the shares. The other members of Vanguard Group have	
	a relevant interest under section 608(3) of the Corporations	
	Act.	

4. Details of present registered holders

The persons registered as holders of the securities referred to in paragraph 3 above are as follows:

Holder of relevant interest	Registered holder of securities	Person entitled to be registered as holder (8)	Class and number of
			securities
Vanguard Group	Brown Brothers Harriman	Various funds and other accounts of Vanguard Group	Ordinary – 3,793,125
Vanguard Group	BNY Mellon	Various funds and other accounts of Vanguard Group	Ordinary – 4,442,764
Vanguard Group	Citibank	Various funds and other accounts of Vanguard Group	Ordinary – 32,730
Vanguard Group	JP Morgan Chase Bank, N.A.	Various funds and other accounts of Vanguard Group	Ordinary – 37,818,561
Vanguard Group	State Street Bank and Trust Company	Various funds and other accounts of Vanguard Group	Ordinary – 9,530,240
Vanguard Group	Various others	Various funds and other accounts of Vanguard Group	Ordinary – 7,794,701

5. Consideration

The consideration paid for each relevant interest referred to in paragraph 3 above, and acquired in the four months prior to the day that the substantial holder became a substantial holder is as follows:

Holder of relevant interest	Date of acquisition	Consideration (9)	Class and number of securities			
See Annexure A						

6. Associates

The reasons the persons named in paragraph 3 above are associates of the substantial holder are as follows:

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

7. 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

print name _	Shawn Acker	capacity	Compliance Manager
sign here	STORON SCHOOL	date	03 August 2021

To Company ACN/ARSN

Woolworths Group Limited 000 014 675

Substantial Holder Name ACN/ARSN

Vanguard Group

N/A

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes
30-Mar-	21 The Vanguard Group, Inc.	BUY	40.25	Ordinary	1,865	1,865
30-Mar-	21 The Vanguard Group, Inc.	BUY	40.25	Ordinary	623	623
30-Mar-	21 The Vanguard Group, Inc.	BUY	40.61	Ordinary	20,112	20,112
30-Mar-	21 The Vanguard Group, Inc.	BUY	40.61		11,452	11,452
	21 The Vanguard Group, Inc.	SELL	40.87	Ordinary	(40,768)	(40,768)
31-Mar-	21 The Vanguard Group, Inc.	BUY	41.00	Ordinary	13,370	13,370
1-Apr	21 The Vanguard Group, Inc.	SELL	40.82	Ordinary	(1,857)	(1,857)
1-Apr	21 The Vanguard Group, Inc.	SELL	40.82	Ordinary	(2,028)	(2,028)
1-Apr	21 The Vanguard Group, Inc.	BUY	40.70	Ordinary	3,083	3,083
1-Apr	21 The Vanguard Group, Inc.	BUY	40.70	Ordinary	20,412	20,412
1-Apr	21 The Vanguard Group, Inc.	BUY	40.70	Ordinary	49,276	49,276
5-Apr	21 The Vanguard Group, Inc.	BUY	41.16	Ordinary	2,118	2,118
6-Apr	21 The Vanguard Group, Inc.	BUY	41.01	Ordinary	1,108	1,108
	21 The Vanguard Group, Inc.	BUY	41.06	Ordinary	8,830	8,830
6-Apr	21 The Vanguard Group, Inc.	BUY	41.06	Ordinary	9,359	9,359
7-Apr	21 The Vanguard Group, Inc.	BUY	41.34	Ordinary	501	501
7-Apr	21 The Vanguard Group, Inc.	BUY	41.34	Ordinary	547	547
7-Apr	21 The Vanguard Group, Inc.	BUY	41.34	Ordinary	620	620
8-Apr	21 The Vanguard Group, Inc.	BUY	41.76	Ordinary	637	637
8-Apr	21 The Vanguard Group, Inc.	BUY	41.64	Ordinary	9,551	9,551
8-Apr	21 The Vanguard Group, Inc.	BUY	41.64	Ordinary	7,930	7,930
9-Apr	21 The Vanguard Group, Inc.	BUY	41.23	Ordinary	9,037	9,037
9-Apr	21 The Vanguard Group, Inc.	BUY	41.23	Ordinary	7,119	7,119
9-Apr	21 The Vanguard Group, Inc.	BUY	41.23	Ordinary	1,062	1,062
9-Apr	21 The Vanguard Group, Inc.	BUY	41.25	Ordinary	2,820	2,820
9-Apr	21 The Vanguard Group, Inc.	BUY	41.23	Ordinary	20,230	20,230
9-Apr	21 The Vanguard Group, Inc.	BUY	41.25	Ordinary	10,696	10,696
12-Apr	21 The Vanguard Group, Inc.	BUY	41.04	Ordinary	1,875	1,875
12-Apr	21 The Vanguard Group, Inc.	BUY	41.04	Ordinary	916	916
12-Apr	21 The Vanguard Group, Inc.	SELL	41.04	Ordinary	(70)	(70)
13-Apr	21 The Vanguard Group, Inc.	BUY	41.39	Ordinary	547	547
13-Apr	21 The Vanguard Group, Inc.	BUY	41.39	Ordinary	5,145	5,145
13-Apr	21 The Vanguard Group, Inc.	BUY	41.39	Ordinary	621	621
13-Apr	21 The Vanguard Group, Inc.	BUY	41.13	Ordinary	6,359	6,359
13-Apr	21 The Vanguard Group, Inc.	BUY	41.44	Ordinary	8,022	8,022
	21 The Vanguard Group, Inc.	SELL	41.50	Ordinary	(528)	(528)
	21 The Vanguard Group, Inc.	BUY	41.21	Ordinary	6,181	6,181
•	21 The Vanguard Group, Inc.	BUY		Ordinary	1,412	1,412
<u>'</u>	21 The Vanguard Group, Inc.	BUY		Ordinary	8,022	8,022
<u>'</u>	21 The Vanguard Group, Inc.	BUY	41.37		3,262	3,262
	21 The Vanguard Group, Inc.	BUY		Ordinary	2,436	2,436
	21 The Vanguard Group, Inc.	BUY		Ordinary	948	948
	21 The Vanguard Group, Inc.	BUY		Ordinary	4,628	4,628
	21 The Vanguard Group, Inc.	BUY		Ordinary	2,118	2,118
	21 The Vanguard Group, Inc.	BUY		Ordinary	8,570	8,570
•	21 The Vanguard Group, Inc.	BUY		Ordinary	1,547	1,547
•	21 The Vanguard Group, Inc.	BUY		Ordinary	46,091	46,091
	21 The Vanguard Group, Inc.	BUY		Ordinary	624	624
	21 The Vanguard Group, Inc.	BUY		Ordinary	85,401	85,401
	21 The Vanguard Group, Inc.	BUY		Ordinary	547	547
	21 The Vanguard Group, Inc.	BUY	42.01	Ordinary	763	763
	21 The Vanguard Group, Inc.	SELL		Ordinary	(754)	(754)
•	21 The Vanguard Group, Inc.	BUY		Ordinary	3,792	3,792
	21 The Vanguard Group, Inc.	BUY		Ordinary	6,595	6,595
19-Apr	21 The Vanguard Group, Inc.	BUY	41.90	Ordinary	13,370	13,370

20-Apr 21 The Vanguard Group, Inc. 8UY 41.00 Ordinary 4.142 21-Apr 21 The Vanguard Group, Inc. 8UY 41.74 Ordinary 508 21-Apr 21 The Vanguard Group, Inc. 8UY 41.74 Ordinary 508 21-Apr 21 The Vanguard Group, Inc. 8UY 41.74 Ordinary 508 21-Apr 21 The Vanguard Group, Inc. 8UY 41.75 Ordinary 6831 21-Apr 21 The Vanguard Group, Inc. 8UY 41.75 Ordinary 6831 21-Apr 21 The Vanguard Group, Inc. 8UY 41.75 Ordinary 6831 21-Apr 21 The Vanguard Group, Inc. 8UY 41.75 Ordinary 6831 21-Apr 21 The Vanguard Group, Inc. 8UY 41.75 Ordinary 6831 21-Apr 21 The Vanguard Group, Inc. 8UY 41.75 Ordinary 6932 22-Apr 21 The Vanguard Group, Inc. 8UY 42.75 Ordinary 12-25 Ordinar			Nature of	Consideration given in relation		Number of securities	
20-Apr-21 The Vanguard Group, Inc. BUY 41.00 Ordinary 4.142 20-Apr-21 The Vanguard Group, Inc. BUY 41.00 Ordinary 4.142 21-Apr-21 The Vanguard Group, Inc. BUY 41.70 Ordinary 1.412 21-Apr-21 The Vanguard Group, Inc. BUY 41.74 Ordinary 1.2342 1. 21-Apr-21 The Vanguard Group, Inc. BUY 41.74 Ordinary 12.342 1. 21-Apr-21 The Vanguard Group, Inc. BUY 41.74 Ordinary 12.342 1. 21-Apr-21 The Vanguard Group, Inc. BUY 41.75 Ordinary 20,043 20. 21-Apr-21 The Vanguard Group, Inc. BUY 41.75 Ordinary 20,043 20. 21-Apr-21 The Vanguard Group, Inc. BUY 41.75 Ordinary 20,043 20. 21-Apr-21 The Vanguard Group, Inc. BUY 41.88 Ordinary 1.412 21-Apr-21 The Vanguard Group, Inc. BUY 41.88 Ordinary 1.412 22-Apr-27 The Vanguard Group, Inc. BUY 42.37 Ordinary 1.3654 11. 22-Apr-27 The Vanguard Group, Inc. BUY 42.39 Ordinary 1.3654 11. 22-Apr-27 The Vanguard Group, Inc. BUY 42.24 Ordinary 1.3654 11. 22-Apr-27 The Vanguard Group, Inc. BUY 42.24 Ordinary 1.3654 12. 22-Apr-27 The Vanguard Group, Inc. BUY 42.24 Ordinary 1.3654 12. 22-Apr-27 The Vanguard Group, Inc. BUY 42.24 Ordinary 1.3654 12. 22-Apr-27 The Vanguard Group, Inc. BUY 42.24 Ordinary 1.3654 12. 22-Apr-27 The Vanguard Group, Inc. BUY 42.25 Ordinary 1.3654 12. 22-Apr-27 The Vanguard Group, Inc. BUY 42.26 Ordinary 1.3654 12. 22-Apr-27 The Vanguard Group, Inc. BUY 42.27 Ordinary 1.3654 12. 22-Apr-27 The Vanguard Group, Inc. BUY 42.28 Ordinary 1.3654	Date of change	Person whose relevant interest changed	Change(6)	to change(7)	Class	affected	affected
20-Apr 21 The Vanguard Group, Inc. 20-Apr 22 Inter Vanguard Group, Inc. 21-Apr 21 The Vanguard Group, Inc. 22-Apr 21 The Vanguard Group, Inc. 22-Apr 21 The Vanguard Group, Inc. 22-Apr 22 The Vanguard Group, Inc. 23-Apr 21 The Vanguard Group, Inc. 24-Apr 21 The Vanguard Group, Inc. 24-Apr 21 The Vanguard Group, Inc. 25-Apr 21 The Vanguard Group, Inc. 28-Apr 21 The							2,492
20-Apr-22 The Vanguard Group, Inc. 21-Apr-22 The Vanguard Group, Inc. 22-Apr-22 The Vanguard Group, Inc. 23-Apr-22 The Vanguard Group, Inc. 24-Apr-22 The Vanguard Group, Inc. 24-Apr-22 The Vanguard Group, Inc. 25-Apr-22	•	, , , , , , , , , , , , , , , , , , ,					615 4,142
21-Apr-21 (The Vanguard Group, Inc. 22-Apr-21 (The Vanguard Group, Inc. 22-Apr-21 (The Vanguard Group, Inc. 22-Apr-21 (The Vanguard Group, Inc. 23-Apr-21 (The Vanguard Group, Inc. 24-Apr-21 (The Vanguard Group, Inc. 25-Apr-21 (The Vanguard Group,							1,412
21-Apr 21 The Vanguard Group, Inc. 21-Apr 22 The Vanguard Group, Inc. 21-Apr 23 The Vanguard Group, Inc. 21-Apr 24 The Vanguard Group, Inc. 21-Apr 25 The Vanguard Group, Inc. 21-Apr 26 The Vanguard Group, Inc. 21-Apr 27 The Vanguard Group, Inc. 22-Apr 27 The Vanguard Group, Inc. 23-Apr 27 The Vanguard Group, Inc. 24-Apr 27 The Vanguard Group, Inc. 24-Apr 27 The Vanguard Group, Inc. 25-Apr 27 The Vanguard Group, Inc. 26-Apr 27 The Vanguard Group, Inc. 27-Apr 27 The Vanguard Group, Inc. 27-Apr 27 The Vanguard Group, Inc. 29-Apr 27 The Va						·	508
21-Apr 21 The Vanguard Group, Inc. 22-Apr 21 The Vanguard Group, Inc. 23-Apr 21 The Vanguard Group, Inc. 24-Apr 21 The Vanguard Group, Inc. 24-Apr 21 The Vanguard Group, Inc. 25-Apr 21 The Va		, , , , , , , , , , , , , , , , , , ,			-		12,342
21-Apr-21 The Vanguard Group, Inc. 21-Apr-22 The Vanguard Group, Inc. 21-Apr-21 The Vanguard Group, Inc. 22-Apr-21 The Vanguard Group, Inc. 23-Apr-21 The Vanguard Group, Inc. 23-Apr-21 The Vanguard Group, Inc. 24-Apr-21 The Vanguard Group, Inc. 25-Apr-21 The Va						·	681
21-Apr-21 The Vanguard Group, Inc. 21-Apr-21 The Vanguard Group, Inc. 22-Apr-21 The Vanguard Group, Inc. 23-Apr-21 The Vanguard Group, Inc. 24-Apr-21 The Vanguard Group, Inc. 25-Apr-21 The Va			BUY				20,043
22-Apr-21 The Vanguard Group, Inc. SUY 42.37 Ordinary 13.654 1.	·		SELL		-	· · · · · · · · · · · · · · · · · · ·	(193)
22-Apr-22 The Vanguard Group, Inc. BUY 41.77 Ordinary 1.8564 1. 22-Apr-22 The Vanguard Group, Inc. BUY 42.24 Ordinary 7.683 1. 23-Apr-22 The Vanguard Group, Inc. BUY 42.24 Ordinary 7.683 1. 23-Apr-22 The Vanguard Group, Inc. BUY 42.24 Ordinary 3.685 3. 23-Apr-22 The Vanguard Group, Inc. BUY 42.24 Ordinary 3.685 3. 23-Apr-22 The Vanguard Group, Inc. BUY 42.29 Ordinary 3.685 3. 23-Apr-22 The Vanguard Group, Inc. BUY 42.29 Ordinary 1.412 1. 26-Apr-22 The Vanguard Group, Inc. BUY 41.89 Ordinary 4.628 6. 26-Apr-22 The Vanguard Group, Inc. BUY 41.89 Ordinary 4.628 6. 26-Apr-22 The Vanguard Group, Inc. BUY 41.89 Ordinary 4.628 6. 27-Apr-22 The Vanguard Group, Inc. SELL 41.86 Ordinary 4.628 6. 27-Apr-22 The Vanguard Group, Inc. SELL 41.88 Ordinary 4. 27-Apr-22 The Vanguard Group, Inc. BUY 41.45 Ordinary 4. 27-Apr-22 The Vanguard Group, Inc. BUY 41.45 Ordinary 4. 27-Apr-22 The Vanguard Group, Inc. BUY 41.45 Ordinary 2.820 7. 27-Apr-22 The Vanguard Group, Inc. BUY 41.78 Ordinary 2.820 7. 27-Apr-22 The Vanguard Group, Inc. BUY 41.78 Ordinary 2.820 7. 28-Apr-22 The Vanguard Group, Inc. BUY 41.45 Ordinary 2.820 7. 28-Apr-22 The Vanguard Group, Inc. BUY 41.45 Ordinary 2.820 7. 28-Apr-22 The Vanguard Group, Inc. BUY 41.45 Ordinary 2.350 7. 28-Apr-22 The Vanguard Group, Inc. BUY 41.39 Ordinary 2.350 7. 28-Apr-22 The Vanguard Group, Inc. BUY 41.39 Ordinary 2.350 7. 28-Apr-22 The Vanguard Group, Inc. BUY 41.39 Ordinary 3.552 7. 29-Apr-22 The Vanguard Group, Inc. BUY 3.931 Ordinary 3.552 7. 29-Apr-22 The Vanguard Group, Inc. BUY 3.930 Ordinary 3.555 7. 30-Apr-22 The Vanguard Group, Inc. BUY 3.930 Ordinary 3.555 7. 30-Apr-22 The Vanguard Group, Inc. BUY 3.930 Ordinary 3	21-Apr-21	The Vanguard Group, Inc.	BUY	41.88	Ordinary	1,412	1,412
22-Apr-21 The Vanguard Group, Inc. 23-Apr-21 The Vanguard Group, Inc. 24-Apr-21 The Vanguard Group, Inc. 25-Apr-21 The Vanguard Group, Inc. 26-Apr-21 The Vanguard Group, Inc. 26-Apr-21 The Vanguard Group, Inc. 27-Apr-21 The Vanguard Group, Inc. 28-Apr-21 The Vanguard Group, Inc. 28-Apr-21 The Vanguard Group, Inc. 28-Apr-21 The Vanguard Group, Inc. 29-Apr-21 The Vanguard Group, Inc. 20-Apr-21 The Vanguard Group,	22-Apr-21	The Vanguard Group, Inc.	BUY	42.37	Ordinary	124	124
23-Apr-21 The Vanguard Group, Inc. 23-Apr-22 The Vanguard Group, Inc. 30	22-Apr-21	The Vanguard Group, Inc.	BUY	41.77	Ordinary	13,654	13,654
23-Apr-21 The Vanguard Group, Inc. 23-Apr-22 The Vanguard Group, Inc. 8UY 42.24 Ordinary 34.685 33-34-67-21 The Vanguard Group, Inc. 8UY 42.29 Ordinary 1,412 25-Apr-21 The Vanguard Group, Inc. 8UV 42.29 Ordinary 1,412 26-Apr-21 The Vanguard Group, Inc. 8UV 41.86 Ordinary 4,628 26-Apr-21 The Vanguard Group, Inc. 8UV 41.87 Ordinary 4,628 26-Apr-21 The Vanguard Group, Inc. 8UV 41.77 Ordinary 4,628 27-Apr-21 The Vanguard Group, Inc. 8UV 41.77 Ordinary 4,628 27-Apr-21 The Vanguard Group, Inc. 8UV 41.78 Ordinary 4,628 27-Apr-21 The Vanguard Group, Inc. 8UV 41.75 Ordinary 4,628 27-Apr-21 The Vanguard Group, Inc. 8UV 41.75 Ordinary 4,628 27-Apr-21 The Vanguard Group, Inc. 8UV 41.75 Ordinary 2,820 27-Apr-21 The Vanguard Group, Inc. 8UV 41.75 Ordinary 2,820 27-Apr-21 The Vanguard Group, Inc. 8UV 41.14 Ordinary 41.45 Ordinary 7,187 28-Apr-21 The Vanguard Group, Inc. 8UV 41.14 Ordinary 41.14 Ordinary 42.30 28-Apr-21 The Vanguard Group, Inc. 8UV 41.13 Ordinary 41.14 Ordinary 41.14 Ordinary 41.15 Ordinary 41.15 Ordinary 41.15 Ordinary 41.15 Ordinary 41.16 Ordinary 41.17 Ordinary 41.17 Ordinary 41.17 Ordinary 41.17 Ordinary 41.18 Ordinary 41.18 Ordinary 41.19 Ordinary 41.19 Ordinary 41.19 Ordinary 41.19 Ordinary 41.10 Ordinary	22-Apr-21	The Vanguard Group, Inc.	BUY	42.30	Ordinary	1,896	1,896
23-Apr-21 The Vanguard Group, Inc. 23-Apr-21 The Vanguard Group, Inc. 30V 42.24 Ordinary 1,412 26-Apr-22 The Vanguard Group, Inc. SELL 41.86 Ordinary 4(0,89) (c. 26-Apr-22) The Vanguard Group, Inc. 8UV 41.89 Ordinary 4,628 26-Apr-22 The Vanguard Group, Inc. 8UV 41.89 Ordinary 4,628 26-Apr-22 The Vanguard Group, Inc. 8UV 41.89 Ordinary 4,628 27-Apr-21 The Vanguard Group, Inc. 8UV 41.87 Ordinary 4,616 27-Apr-21 The Vanguard Group, Inc. 8UV 41.15 Ordinary 4,628 27-Apr-21 The Vanguard Group, Inc. 8UV 41.15 Ordinary 1,652 27-Apr-21 The Vanguard Group, Inc. 8UV 41.18 Ordinary 1,257 11 27-Apr-21 The Vanguard Group, Inc. 8UV 41.18 Ordinary 2,820 27-Apr-21 The Vanguard Group, Inc. 8UV 41.18 Ordinary 2,820 27-Apr-21 The Vanguard Group, Inc. 8UV 41.16 Ordinary 28-Apr-21 The Vanguard Group, Inc. 8UV 41.17 Ordinary 28-Apr-21 The Vanguard Group, Inc. 8UV 41.19 Ordinary 28-Apr-21 The Vanguard Group, Inc. 8UV 41.19 Ordinary 28-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 2,530 28-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 2,530 28-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 2,530 28-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 2,530 28-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 3,532 29-Apr-21 The Vanguard Group, Inc. 8UV 38.81 Ordinary 1,766 29-Apr-21 The Vanguard Group, Inc. 8UV 38.81 Ordinary 1,766 29-Apr-21 The Vanguard Group, Inc. 8UV 38.81 Ordinary 1,566 (29-Apr-21 The Vanguard Group, Inc. 8UV 38.81 Ordinary 1,566 (29-Apr-21 The Vanguard Group, Inc. 8UV 38.81 Ordinary 1,566 (30-Apr-21 The Vanguard Group, Inc. 8UV 38.81 Ordinary 1,566 (30-Apr-21 The Vanguard Group, Inc. 8UV 38.81 Ordinary 1,566 (30-Apr-21 The Vanguard Group, Inc. 8UV 38.81 Ordinary 1,566 (30-Apr-21 The Vanguard Group, Inc. 8UV 38.81 Ordinary 1,566 (30-Apr-21 The Vanguard Group, Inc. 8UV 38.90 Ordinary 1,566 (40-Apr-21 The Vanguard Group, Inc. 8UV 38.90 Ordinary 1,566 (50-Apr-21 The Vanguard Group, Inc. 8UV 38.90 Ordinary 1,566 (50	23-Apr-21	The Vanguard Group, Inc.	BUY	42.24	Ordinary	7,683	7,683
23-Apr-22 The Vanguard Group, Inc. 26-Apr-22 The Vanguard Group, Inc. 26-Apr-22 The Vanguard Group, Inc. 26-Apr-22 The Vanguard Group, Inc. 8UY 41.89 Ordinary 4,628 26-Apr-22 The Vanguard Group, Inc. 8UY 41.89 Ordinary 4,628 27-Apr-27 The Vanguard Group, Inc. 8UY 41.89 Ordinary 4,628 27-Apr-27 The Vanguard Group, Inc. 8UY 41.89 Ordinary 4,628 27-Apr-27 The Vanguard Group, Inc. 8UV 41.45 Ordinary 1,2,527 12-Apr-27 The Vanguard Group, Inc. 8UV 41.45 Ordinary 1,2,527 12-Apr-27 The Vanguard Group, Inc. 8UV 41.45 Ordinary 1,2,527 12-Apr-27 The Vanguard Group, Inc. 8UV 41.45 Ordinary 1,2,527 12-Apr-27 The Vanguard Group, Inc. 8UV 41.45 Ordinary 7,187 28-Apr-27 The Vanguard Group, Inc. 8UV 41.41 Ordinary 7,187 28-Apr-27 The Vanguard Group, Inc. 8UV 41.43 Ordinary 7,187 28-Apr-27 The Vanguard Group, Inc. 8UV 41.43 Ordinary 1,350 28-Apr-27 The Vanguard Group, Inc. 8UV 41.49 Ordinary 1,766 12-Apr-27 The Vanguard Group, Inc. 8UV 41.39 Ordinary 1,766 12-Apr-27 The Vanguard Group, Inc. 8UV 38.81 Ordinary 1,766 12-Apr-27 The Vanguard Group, Inc. 8UV 38.81 Ordinary 1,766 12-Apr-27 The Vanguard Group, Inc. 8UV 38.81 Ordinary 1,766 12-Apr-27 The Vanguard Group, Inc. 8UV 38.81 Ordinary 1,766 12-Apr-27 The Vanguard Group, Inc. 8UV 38.81 Ordinary 1,766 12-Apr-27 The Vanguard Group, Inc. 8UV 38.81 Ordinary 1,766 12-Apr-27 The Vanguard Group, Inc. 8UV 38.82 Ordinary 3,552 30-Apr-27 The Vanguard Group, Inc. 8UV 38.83 Ordinary 3,552 30-Apr-27 The Vanguard Group, Inc. 8UV 38.80 Ordinary 3,555 30-Apr-27 The Vanguard Group, Inc. 8UV 38.80 Ordinary 3,555 30-Apr-27 The Vanguard Group, Inc. 8UV 38.80 Ordinary 3,555 30-Apr-27 The Vanguard Group, Inc. 8UV 38.80 Ordinary 3,555 30-Apr-27 The Vanguard Group, Inc. 8UV 38.80 Ordinary 3,555 30-Apr-27 The Vanguard Group, Inc. 8UV 38.90 Ordinary 3,555 30-Apr-27 The Vanguard Group, Inc. 8UV 38.90 Ordinary 3,555 30-Apr-27 The Vanguard Group, Inc. 8UV 38.90 Ordinary 3,555 30-Apr-27 The Vanguard Group, Inc. 8UV 38.90 Ordinary 3,565 30-Apr-27 The Vanguard Group, Inc. 8UV 38.90 Ordinary 3,565 3,567 3,578 3	23-Apr-21	The Vanguard Group, Inc.	BUY	42.24	Ordinary	623	623
26-Apr-21 The Vanguard Group, Inc. SELL 41.8 Ordinary (4,089) (6, 26-Apr-21) The Vanguard Group, Inc. BUY 41.89 Ordinary 4,628 7, 26-Apr-21 The Vanguard Group, Inc. BUY 41.70 Ordinary 24,161 22-Apr-21 The Vanguard Group, Inc. SELL 41.86 Ordinary 24,161 22-Apr-21 The Vanguard Group, Inc. BUY 41.70 Ordinary 12,575 1. (1,652) (7,74) The Vanguard Group, Inc. BUY 41.70 Ordinary 2,820 1. (1,652) (23-Apr-21	The Vanguard Group, Inc.	BUY	42.24	Ordinary	34,685	34,685
26-Apr-21 The Vanguard Group, Inc. 26-Apr-21 The Vanguard Group, Inc. 27-Apr-21 The Vanguard Group, Inc. 27-Apr-21 The Vanguard Group, Inc. 8UY 41.17 Ordinary (1652) 27-Apr-21 The Vanguard Group, Inc. 8UV 41.48 Ordinary (1652) 27-Apr-21 The Vanguard Group, Inc. 8UV 41.49 Ordinary 12.257 12.27-Apr-21 The Vanguard Group, Inc. 8UV 41.49 Ordinary 12.257 12.27-Apr-21 The Vanguard Group, Inc. 8UV 41.41 Ordinary 12.28-Apr-21 The Vanguard Group, Inc. 8UV 41.49 Ordinary 12.350 12.36-Apr-21 The Vanguard Group, Inc. 8UV 41.49 Ordinary 12.350 12.36-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 12.350 12.36-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 12.350 12.36-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 12.350 12.36-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 12.350 12.36-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 12.350 12.36-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 12.360 12.36-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 12.366 12.36-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 12.366 12.36-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 12.366 12.36-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 12.366 12.36-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 12.366 12.36-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 12.366 12.36-Apr-21 The Vanguard Group, Inc. 8UV 41.39 Ordinary 13.305 13.364 13.364 14.365 14.365 15.364 16.364 17.365 17.365 18.376 18.3876 18.3980 1	23-Apr-21	The Vanguard Group, Inc.	BUY	42.29	Ordinary	1,412	1,412
26-Apr-21 The Vanguard Group, Inc. 27-Apr-21 the Vanguard Group, Inc. 27-Apr-21 the Vanguard Group, Inc. 8UY 41.45 Ordinary 12.57 11 27-Apr-21 The Vanguard Group, Inc. 8UY 41.45 Ordinary 2.820 27-Apr-21 The Vanguard Group, Inc. 8UV 41.45 Ordinary 2.820 28-Apr-21 The Vanguard Group, Inc. 8UV 41.45 Ordinary 2.820 28-Apr-21 The Vanguard Group, Inc. 8UV 41.45 Ordinary 7.867 28-Apr-21 The Vanguard Group, Inc. 8UV 41.41 Ordinary 7.867 28-Apr-21 The Vanguard Group, Inc. 8UV 41.41 Ordinary 7.867 28-Apr-21 The Vanguard Group, Inc. 8UV 41.41 Ordinary 7.867 28-Apr-21 The Vanguard Group, Inc. 8UV 41.41 Ordinary 28-Apr-21 The Vanguard Group, Inc. 8UV 41.43 Ordinary 28-Apr-21 The Vanguard Group, Inc. 8UV 41.43 Ordinary 2.350 28-Apr-21 The Vanguard Group, Inc. 8UV 41.43 Ordinary 2.350 30-Apr-21 The Vanguard Group, Inc. 8UV 39.81 Ordinary 1.766 29-Apr-21 The Vanguard Group, Inc. 8UV 39.81 Ordinary 1.766 30-Apr-21 The Vanguard Group, Inc. 8UV 39.83 Ordinary 3.566 30-Apr-21 The Vanguard Group, Inc. 8UV 39.83 Ordinary 3.566 30-Apr-21 The Vanguard Group, Inc. 8UV 39.80 Ordinary 39.80 Or						(4,089)	(4,089)
27-Apr-21 The Vanguard Group, Inc. SELL 41.68 Ordinary (1.652) (1.27-Apr-21 The Vanguard Group, Inc. BUY 41.75 Ordinary 1.2,257 1.72-Apr-21 The Vanguard Group, Inc. BUY 41.76 Ordinary 2.820 1.27-Apr-21 The Vanguard Group, Inc. BUY 41.76 Ordinary 7.187 1.72-Apr-21 The Vanguard Group, Inc. BUY 41.45 Ordinary 7.187 1.72-Apr-21 The Vanguard Group, Inc. BUY 41.45 Ordinary 7.794 1.72-Apr-21 The Vanguard Group, Inc. SELL 41.41 Ordinary (24.3) 28-Apr-21 The Vanguard Group, Inc. BUY 41.39 Ordinary 2.250 1.25-Apr-21 The Vanguard Group, Inc. BUY 41.39 Ordinary 3.532 1.25-Apr-21 The Vanguard Group, Inc. BUY 41.39 Ordinary 3.532 1.25-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary 1.766 (1.25-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary (1.566 (1.25-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary (1.566 (1.25-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary (3.66) (1.25-Apr-21 The Vanguard Group, Inc. BUY 39.82 Ordinary (3.66) (1.25-Apr-21 The Vanguard Group, Inc. BUY 39.83 Ordinary 3.525 30-Apr-21 The Vanguard Group, Inc. BUY 39.80 Ordinary 3.525 30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 3.525 30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 3.526 3.34 3	<u>'</u>	U 17				·	4,628
27-Apr-21 The Vanguard Group, Inc. BUY 41.45 Ordinary 12.257 12.74pr-21 The Vanguard Group, Inc. BUY 41.78 Ordinary 2.820 27-Apr-21 The Vanguard Group, Inc. BUY 41.45 Ordinary 7.187 28-Apr-21 The Vanguard Group, Inc. BUY 41.45 Ordinary 7.74 28-Apr-21 The Vanguard Group, Inc. BUY 41.41 Ordinary 7.94 28-Apr-21 The Vanguard Group, Inc. BUY 41.43 Ordinary 7.94 28-Apr-21 The Vanguard Group, Inc. BUY 41.39 Ordinary 2.350 .	26-Apr-21	The Vanguard Group, Inc.	BUY	41.77	Ordinary	24,161	24,161
27-Apr-21 The Vanguard Group, Inc. BUY 41.78 Ordinary 2,820 27-Apr-21 The Vanguard Group, Inc. BUY 41.45 Ordinary 7,187 28-Apr-21 The Vanguard Group, Inc. BUY 41.41 Ordinary 7,94 28-Apr-21 The Vanguard Group, Inc. SELL 41.41 Ordinary (24.3) 28-Apr-21 The Vanguard Group, Inc. BUY 41.39 Ordinary 2,350 28-Apr-21 The Vanguard Group, Inc. BUY 41.39 Ordinary 3,532 32-Apr-21 The Vanguard Group, Inc. BUY 41.39 Ordinary 3,532 32-Apr-21 The Vanguard Group, Inc. BUY 33.81 Ordinary 1,766 (29-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary 1,766 (29-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary (1,566) (29-Apr-21 The Vanguard Group, Inc. BUY 39.82 Ordinary (366) (29-Apr-21 The Vanguard Group, Inc. BUY 39.82 Ordinary (366) (29-Apr-21 The Vanguard Group, Inc. BUY 39.80 Ordinary 3,525 (30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 3,525 (30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 1,564 (30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 1,564 (30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 1,364 (30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 1,364 (30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 3,305 (30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 3,305 (30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 3,305 (30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 3,305 (30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 3,305 (30-Apr-21 The Vanguard Group, Inc. BUY 39.00 Ordinary 3,305 (30-Apr-21 The Vanguard Group, Inc. BUY 39.00 Ordinary 3,305 (30-Apr-21 The Vanguard Group, Inc. BUY 39.00 Ordinary 3,305 (30-Apr-21 The Vanguard Group, Inc. BUY 39.00 Ordinary 3,305 (30-Apr-21 The Vanguard Group, Inc. BUY 39.20 Ordinary 3,205 (30-A	27-Apr-21	The Vanguard Group, Inc.		41.68	Ordinary	(1,652)	(1,652)
27-Apr-21 The Vanguard Group, Inc. BUY 41.45 Ordinary 7,187 28-Apr-21 The Vanguard Group, Inc. BUY 41.41 Ordinary 794 28-Apr-21 The Vanguard Group, Inc. SELL 41.41 Ordinary (243) 28-Apr-21 The Vanguard Group, Inc. BUY 41.39 Ordinary 2,350 28-Apr-21 The Vanguard Group, Inc. BUY 41.39 Ordinary 2,350 28-Apr-21 The Vanguard Group, Inc. BUY 41.39 Ordinary 3,352 3 3 3 3 3 3 3 3 3					Ordinary	·	12,257
28-Apr-21 The Vanguard Group, Inc. BUY 41.41 Ordinary 794 28-Apr-21 The Vanguard Group, Inc. SELL 41.41 Ordinary (243) 28-Apr-21 The Vanguard Group, Inc. BUY 41.39 Ordinary 2,350		·				· · · · · · · · · · · · · · · · · · ·	2,820
28-Apr-21 The Vanguard Group, Inc. SELL 41.41 Ordinary (243)							7,187
28-Apr-21 The Vanguard Group, Inc. BUY 41.39 Ordinary 2,350 28-Apr-21 The Vanguard Group, Inc. BUY 41.39 Ordinary 3,532 29-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary 1,766 29-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary 1,766 (1,566) (29-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary (1,566) (29-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary (366) 29-Apr-21 The Vanguard Group, Inc. BUY 39.82 Ordinary (366) 29-Apr-21 The Vanguard Group, Inc. BUY 39.82 Ordinary (366) 30-Apr-21 The Vanguard Group, Inc. BUY 39.80 Ordinary 3,525 30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 1,864 30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 3,305 4-May-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 3,305 4-May-21 The Vanguard Group, Inc. BUY 39.10 Ordinary 3,305 4-May-21 The Vanguard Group, Inc. BUY 39.10 Ordinary 3,305 4-May-21 The Vanguard Group, Inc. BUY 39.10 Ordinary 3,995 4-May-21 The Vanguard Group, Inc. BUY 39.00 Ordinary 3,995 4-May-21 The Vanguard Group, Inc. BUY 39.00 Ordinary 2,695 5-May-21 The Vanguard Group, Inc. BUY 39.00 Ordinary 2,695 5-May-21 The Vanguard Group, Inc. BUY 39.00 Ordinary 2,695 5-May-21 The Vanguard Group, Inc. BUY 39.00 Ordinary 49.00 6-May-21 The Vanguard Group, Inc. BUY 39.20 Ordinary 49.01 6-May-21 The Vanguard Group, Inc. BUY 39.20 Ordinary 49.01 6-May-21 The Vanguard Group, Inc. BUY 39.20 Ordinary 49.01 6-May-21 The Vanguard Group, Inc. BUY 39.20 Ordinary 49.01 6-May-21 The Vanguard Group, Inc. BUY 39.20 Ordinary 49.01 6-May-21 The Vanguard Group, Inc. BUY 39.20 Ordinary 49.01 6-May-21 The Vanguard Group, Inc. BUY 39.20 Ordinary 49.01 6-May-21 The Vanguard Group, Inc. BUY 39.28 Ordinary 49.01 6-May-21 The Vanguard Group, Inc. BUY 39.28 Ordinary 49.01 6-May-21 The Vanguard Group, Inc. BUY 39.28 Ordinary 49.01 6-May-21 The Vanguard Group, Inc. BUY 39.28 Ordinary 49.02 40-May-21 The Vanguard Group, Inc. BUY 39.28 Ordinary 40.02 40-Ma	•					_	794
28-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary 1,766 29-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary 1,766 29-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary 1,766 29-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary (366) 29-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary (366) 29-Apr-21 The Vanguard Group, Inc. BUY 39.82 Ordinary 3,525 30-Apr-21 The Vanguard Group, Inc. BUY 39.80 Ordinary 1,364 30-Apr-21 The Vanguard Group, Inc. BUY 39.80 Ordinary 1,364 30-Apr-21 The Vanguard Group, Inc. BUY 39.90 Ordinary 1,364 30-Apr-21 The Vanguard Group, Inc. BUY 39.90 Ordinary 1,364 30-Apr-21 The Vanguard Group, Inc. BUY 39.90 Ordinary 3,305 4-May-21 The Vanguard Group, Inc. BUY 39.90 Ordinary 3,305 4-May-21 The Vanguard Group, Inc. BUY 39.10 Ordinary 2,820 4-May-21 The Vanguard Group, Inc. BUY 39.10 Ordinary 2,820 4-May-21 The Vanguard Group, Inc. BUY 39.10 Ordinary 2,820 4-May-21 The Vanguard Group, Inc. BUY 39.10 Ordinary 7,158 5-May-21 The Vanguard Group, Inc. BUY 39.00 Ordinary 7,158 5-May-21 The Vanguard Group, Inc. BUY 39.00 Ordinary 7,158 5-May-21 The Vanguard Group, Inc. BUY 39.00 Ordinary 7,158 5-May-21 The Vanguard Group, Inc. BUY 39.00 Ordinary 4,695 6-May-21 The Vanguard Group, Inc. BUY 39.26 Ordinary 490 6-May-21 The Vanguard Group, Inc. BUY 39.26 Ordinary 490 6-May-21 The Vanguard Group, Inc. BUY 39.28 Ordinary 490 6-May-21 The Vanguard Group, Inc. BUY 39.28 Ordinary 4,000 6-May-21 The Vanguard Group, Inc. BUY 39.28 Ordinary 4,000 6-May-21 The Vanguard Group, Inc. BUY 39.28 Ordinary 4,000 6-May-21 The Vanguard Group, Inc. BUY 39.28 Ordinary 4,000 6-May-21 The Vanguard Group, Inc. BUY 39.28 Ordinary 4,000 6-May-21 The Vanguard Group, Inc. BUY 39.28 Ordinary 4,000 6-May-21 The Vanguard Group, Inc. BUY 39.28 Ordinary 4,000 6-May-21 The Vanguard Group, Inc. BUY 39.28 Ordinary 4,000 6-May-21 The Vanguard Group, Inc. BUY 39.28 Ordinary 4,000 6-May-21 The Vanguard Gro		, , , , , , , , , , , , , , , , , , ,				, ,	(243)
29-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary 1,766 29-Apr-21 The Vanguard Group, Inc. SELL 41.02 Ordinary (1,566)	•	1.				•	2,350
29-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary (1,566) (1,29-Apr-21 The Vanguard Group, Inc. BUY 39.81 Ordinary (366) (29-Apr-21 The Vanguard Group, Inc. SELL 41.02 Ordinary (366)						· · · · · · · · · · · · · · · · · · ·	3,532
29-Apr-21 The Vanguard Group, Inc. 29-Apr-21 The Vanguard Group, Inc. 29-Apr-21 The Vanguard Group, Inc. SELL 41.02 Ordinary (366) 29-Apr-21 The Vanguard Group, Inc. BUY 39.38 Ordinary 3,525 30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 1,364 30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 1,366 1 3-May-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 1,366 1 3-May-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 3,305 1 4-May-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 3,305 1 4-May-21 The Vanguard Group, Inc. BUY 39.31 Ordinary 3,305 1 4-May-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 3,995 Ordinary 3,995 Ordinary 3,995 Ordinary 4-May-21 The Vanguard Group, Inc. BUY 39.00 Ordinary 3,995 Ordinary 4-May-21 The Vanguard Group, Inc. BUY 39.00 O					-		1,766
29-Apr-21 The Vanguard Group, Inc. BUY 39.20 Ordinary 3.525					-		(1,566)
29-Apr-21 The Vanguard Group, Inc. BUY 39.82 Ordinary 3,525	•						617
30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 1,364 30-Apr-21 The Vanguard Group, Inc. BUY 39.30 Ordinary 11,861 11 31-May-21 The Vanguard Group, Inc. BUY 39.00 Ordinary 3,305 3.40 39.00 Ordinary 3,305 3.40 39.00 Ordinary 2,820 3.40 39.19 Ordinary 3,305 3.40 39.10 Ordinary 3,005 3.40 39.10 Ordinary 3,005 3.40 39.10 Ordinary 3,005 3.40 39.10 Ordinary 3,005 3.40 39.10 Ordinary 4,000 4.40 39.20 Ordin						` '	(366) 3,525
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10-May-21 The Vanguard Group, Inc. BUY 40.50 Ordinary 656 10-May-21 The Vanguard Group, Inc. BUY 40.26 Ordinary 9,408 9 11-May-21 The Vanguard Group, Inc. BUY 41.00 Ordinary 14,306 14 11-May-21 The Vanguard Group, Inc. BUY 40.76 Ordinary 1,418 3							1,418
10-May-21 The Vanguard Group, Inc. BUY 40.26 Ordinary 9,408 9 11-May-21 The Vanguard Group, Inc. BUY 41.00 Ordinary 14,306 14 11-May-21 The Vanguard Group, Inc. BUY 40.76 Ordinary 1,418 3	•				-		6,908
11-May-21 The Vanguard Group, Inc. BUY 41.00 Ordinary 14,306 14 11-May-21 The Vanguard Group, Inc. BUY 40.76 Ordinary 1,418 3		·					656
11-May-21 The Vanguard Group, Inc. BUY 40.76 Ordinary 1,418						·	9,408
					-	1	14,306
12-May-21 The Vanguard Group, Inc. BUY 40.50 Ordinary 831	•						1,418 831

		Nature of	Consideration given in relation		Number of securities	
Date of change	Person whose relevant interest changed	Change(6)	to change(7)	Class	affected	affected
· · · · · · · · · · · · · · · · · · ·	11 The Vanguard Group, Inc.	BUY		Ordinary	1,896	1,896
•	1 The Vanguard Group, Inc.	BUY		Ordinary	6,292	6,292
,	1 The Vanguard Group, Inc.	SELL		Ordinary	(12,727)	(12,727)
· · · · · · · · · · · · · · · · · · ·	11 The Vanguard Group, Inc.	BUY		Ordinary	6,832	6,832
•	11 The Vanguard Group, Inc.			Ordinary	18,286	18,286
	The Vanguard Group, Inc. The Vanguard Group, Inc.	BUY	40.58	Ordinary Ordinary	637 498	637 498
· · · · · · · · · · · · · · · · · · ·	1 The Vanguard Group, Inc.	SELL		Ordinary	(12,184)	(12,184)
•	1 The Vanguard Group, Inc.	BUY		Ordinary	3,532	3,532
	1 The Vanguard Group, Inc.	BUY	40.69	Ordinary	482	482
	1 The Vanguard Group, Inc.	BUY		Ordinary	9,937	9,937
· · · · · · · · · · · · · · · · · · ·	11 The Vanguard Group, Inc.	BUY	40.50	Ordinary	3,018	3,018
	11 The Vanguard Group, Inc.	BUY		Ordinary	1,422	1,422
	1 The Vanguard Group, Inc.	BUY		Ordinary	2,649	2,649
	1 The Vanguard Group, Inc.	BUY		Ordinary	2,130	2,130
	1 The Vanguard Group, Inc.	BUY		Ordinary	6,729	6,729
-	1 The Vanguard Group, Inc.	BUY	40.55	Ordinary	8,064	8,064
·	1 The Vanguard Group, Inc.	BUY	40.55	Ordinary	21,504	21,504
	1 The Vanguard Group, Inc.	BUY		Ordinary	1,285	1,285
20-May-2	1 The Vanguard Group, Inc.	BUY	40.68	Ordinary	627	627
20-May-2	1 The Vanguard Group, Inc.	BUY	40.82	Ordinary	3,290	3,290
20-May-2	1 The Vanguard Group, Inc.	BUY	40.82	Ordinary	1,420	1,420
21-May-2	The Vanguard Group, Inc.	BUY	41.48	Ordinary	645	645
24-May-2	1 The Vanguard Group, Inc.	BUY	41.60	Ordinary	500	500
24-May-2	1 The Vanguard Group, Inc.	BUY		Ordinary	749	749
-	1 The Vanguard Group, Inc.	BUY		Ordinary	6,636	6,636
24-May-2	1 The Vanguard Group, Inc.	SELL	41.55	Ordinary	(194)	(194)
	1 The Vanguard Group, Inc.	BUY		Ordinary	13,331	13,331
	1 The Vanguard Group, Inc.	BUY		Ordinary	3,532	3,532
	1 The Vanguard Group, Inc.	SELL		Ordinary	(58,492)	(58,492)
	1 The Vanguard Group, Inc.	SELL		Ordinary	(15,308)	(15,308)
· · · · · · · · · · · · · · · · · · ·	11 The Vanguard Group, Inc.	BUY	41.67	Ordinary	1,153	1,153
	1 The Vanguard Group, Inc.	BUY		Ordinary	2,388	2,388
	1 The Vanguard Group, Inc.	BUY		Ordinary	626	626
	11 The Vanguard Group, Inc. 11 The Vanguard Group, Inc.	BUY SELL		Ordinary Ordinary	1,422 (4,890)	1,422 (4,890)
	1 The Vanguard Group, Inc.	BUY		Ordinary	1,161	1,161
	11 The Vanguard Group, Inc.	BUY	41.62	Ordinary	10,370	10,370
	1 The Vanguard Group, Inc.	BUY		Ordinary	24,407	24,407
	21 The Vanguard Group, Inc.	BUY		Ordinary	1,310	1,310
	1 The Vanguard Group, Inc.	BUY		Ordinary	617	617
	11 The Vanguard Group, Inc.	BUY		Ordinary	9,457	9,457
	1 The Vanguard Group, Inc.	BUY		Ordinary	1,424	1,424
	1 The Vanguard Group, Inc.	BUY	43.45	Ordinary	625	625
8-Jun-2	1 The Vanguard Group, Inc.	BUY	43.62	Ordinary	1,037	1,037
8-Jun-2	1 The Vanguard Group, Inc.	BUY	43.45	Ordinary	596	596
9-Jun-2	1 The Vanguard Group, Inc.	BUY	42.63	Ordinary	1,424	1,424
15-Jun-2	1 The Vanguard Group, Inc.	BUY	43.50	Ordinary	602	602
15-Jun-2	The Vanguard Group, Inc.	BUY	43.50	Ordinary	748	748
16-Jun-2	1 The Vanguard Group, Inc.	BUY	43.86	Ordinary	1,424	1,424
16-Jun-2	1 The Vanguard Group, Inc.	BUY	43.86	Ordinary	5,432	5,432
	1 The Vanguard Group, Inc.	BUY		Ordinary	1,008	1,008
	1 The Vanguard Group, Inc.	BUY		Ordinary	13,580	13,580
	1 The Vanguard Group, Inc.	BUY		Ordinary	983	983
	1 The Vanguard Group, Inc.	BUY		Ordinary	1,020	1,020
	11 The Vanguard Group, Inc.	SELL		Ordinary	(454)	(454)
	1 The Vanguard Group, Inc.	SELL		Ordinary	(5,571)	
	11 The Vanguard Group, Inc.	SELL		Ordinary	(102,336)	
	1 The Vanguard Group, Inc.	SELL		Ordinary	(8,009)	
	11 The Vanguard Group, Inc.	SELL		Ordinary	(5,064)	
	11 The Vanguard Group, Inc.	BUY		Ordinary	851	851
ZZ-Jun-Z	1 The Vanguard Group, Inc.	BUY	43.35	Ordinary	1,692	1,692

		Nature of	Consideration given in relation		Number of securities	
Date of change	Person whose relevant interest changed	Change(6)	to change(7)	Class	affected	affected
	The Vanguard Group, Inc.	BUY	43.35	Ordinary	622	622
	The Vanguard Group, Inc. The Vanguard Group, Inc.	BUY	43.29	Ordinary Ordinary	3,720 1,395	3,720 1,395
	The Vanguard Group, Inc.	BUY		Ordinary	8,148	8,148
	The Vanguard Group, Inc.	BUY		Ordinary	1,465	1,465
	The Vanguard Group, Inc.	BUY	42.37	Ordinary	1,395	1,395
	The Vanguard Group, Inc.	BUY	37.91	Ordinary	10,864	10,864
	The Vanguard Group, Inc.	SELL	37.38	Ordinary	(83,168)	(83,168)
	The Vanguard Group, Inc.	BUY	37.99	Ordinary	6,635	6,635
29-Jun-21	The Vanguard Group, Inc.	SELL	37.65	Ordinary	(2,005)	(2,005)
29-Jun-21	The Vanguard Group, Inc.	BUY	38.00	Ordinary	416	416
30-Jun-21	The Vanguard Group, Inc.	BUY	38.16	Ordinary	3,055	3,055
30-Jun-21	The Vanguard Group, Inc.	BUY	38.12	Ordinary	12,232	12,232
30-Jun-21	The Vanguard Group, Inc.	BUY	38.16	Ordinary	6,830	6,830
1-Jul-21	The Vanguard Group, Inc.	BUY	38.21	Ordinary	1,887	1,887
1-Jul-21	The Vanguard Group, Inc.	SELL	38.35	Ordinary	(1,682)	(1,682)
	The Vanguard Group, Inc.	BUY	38.21	Ordinary	16,081	16,081
	The Vanguard Group, Inc.	BUY	37.65	Ordinary	12,294	12,294
	The Vanguard Group, Inc.	BUY		Ordinary	994	994
	The Vanguard Group, Inc.	BUY	37.59	Ordinary	1,467	1,467
	The Vanguard Group, Inc.	BUY		Ordinary	622	622
	The Vanguard Group, Inc.	BUY		Ordinary	17,728	17,728
	The Vanguard Group, Inc.	BUY		Ordinary	2,350	2,350
	The Vanguard Group, Inc.	BUY SELL	37.78	Ordinary	9,557 (50,936)	9,557 (50,936)
	The Vanguard Group, Inc. The Vanguard Group, Inc.	BUY	37.53 37.60	Ordinary Ordinary	2,385	2,385
	The Vanguard Group, Inc.	SELL	37.36	Ordinary	(11,849)	(11,849)
	The Vanguard Group, Inc.	BUY		Ordinary	36,367	36,367
	The Vanguard Group, Inc.	SELL		Ordinary	(74,844)	(74,844)
	The Vanguard Group, Inc.	BUY		Ordinary	8,196	8,196
	The Vanguard Group, Inc.	BUY	37.89	Ordinary	1,004	1,004
	The Vanguard Group, Inc.	BUY	37.60	Ordinary	14,604	14,604
	The Vanguard Group, Inc.	BUY	37.60	Ordinary	12,103	12,103
7-Jul-21	The Vanguard Group, Inc.	BUY	37.60	Ordinary	10,099	10,099
8-Jul-21	The Vanguard Group, Inc.	BUY	38.55	Ordinary	378	378
8-Jul-21	The Vanguard Group, Inc.	BUY	38.43	Ordinary	2,350	2,350
8-Jul-21	The Vanguard Group, Inc.	BUY	38.34	Ordinary	37,101	37,101
	The Vanguard Group, Inc.	BUY	38.34	Ordinary	11,466	11,466
9-Jul-21	The Vanguard Group, Inc.	BUY	37.83	Ordinary	1,439	1,439
9-Jul-21	The Vanguard Group, Inc.	BUY	38.28	Ordinary	19,035	19,035
	The Vanguard Group, Inc.	BUY		Ordinary	37,887	37,887
	The Vanguard Group, Inc.	BUY		Ordinary	3,760	3,760
	The Vanguard Group, Inc.	BUY		Ordinary	5,875	5,875
	The Vanguard Group, Inc.	BUY		Ordinary	8,225	8,225
	The Vanguard Group, Inc.	BUY		Ordinary	12,388	12,388
	The Vanguard Group, Inc.	BUY		Ordinary	13,699	13,699
	The Vanguard Group, Inc.	BUY		Ordinary	7,947	7,947
	The Vanguard Group, Inc. The Vanguard Group, Inc.	BUY		Ordinary	3,127	3,127
	The Vanguard Group, Inc.	BUY		Ordinary Ordinary	10,928	10,928 622
	The Vanguard Group, Inc.	BUY		Ordinary	2,961	2,961
	The Vanguard Group, Inc.	BUY		Ordinary	41,970	41,970
	The Vanguard Group, Inc.	BUY		Ordinary	14,043	14,043
	The Vanguard Group, Inc.	BUY		Ordinary	17,901	17,901
	The Vanguard Group, Inc.	BUY	38.52	Ordinary	491	491
	The Vanguard Group, Inc.	BUY		Ordinary	982	982
	The Vanguard Group, Inc.	BUY		Ordinary	26,080	26,080
	The Vanguard Group, Inc.	BUY		Ordinary	7,024	7,024
	The Vanguard Group, Inc.	BUY		Ordinary	2,124	2,124
	The Vanguard Group, Inc.	BUY		Ordinary	2,124	2,124
	The Vanguard Group, Inc.	BUY		Ordinary	6,372	6,372
	The Vanguard Group, Inc.	BUY		Ordinary	2,989	2,989

		Nature of	Consideration given in relation		Number of securities	
Date of change	Person whose relevant interest changed	Change(6)	to change(7)	Class	affected	affected
	The Vanguard Group, Inc.	BUY	38.33	Ordinary	15,949	15,949
	The Vanguard Group, Inc.	SELL		Ordinary	(6,967)	(6,967)
	The Vanguard Group, Inc.	BUY	38.48	Ordinary	14,021	14,021
	The Vanguard Group, Inc.	BUY		Ordinary	14,234	14,234
	The Vanguard Group, Inc.			Ordinary	17,169	17,169
	The Vanguard Group, Inc. The Vanguard Group, Inc.	BUY	38.33 38.33	Ordinary Ordinary	478 1,342	478 1,342
	The Vanguard Group, Inc.	BUY	38.04	Ordinary	14,040	14,040
	The Vanguard Group, Inc.	BUY	38.50	Ordinary	479	479
	The Vanguard Group, Inc.	BUY	38.93	Ordinary	484	484
	The Vanguard Group, Inc.	BUY	38.93	Ordinary	1,303	1,303
	The Vanguard Group, Inc.	BUY	39.10	Ordinary	3,525	3,525
	The Vanguard Group, Inc.	BUY	38.82	Ordinary	25,042	25,042
	The Vanguard Group, Inc.	BUY	39.10	Ordinary	3,532	3,532
	The Vanguard Group, Inc.	BUY	39.10	Ordinary	16,524	16,524
	The Vanguard Group, Inc.	SELL	39.17	Ordinary	(5,486)	(5,486
	The Vanguard Group, Inc.	BUY	39.05	Ordinary	2,442	2,442
	The Vanguard Group, Inc.	SELL	39.05	Ordinary	(5,785)	(5,785
23-Jul-21	The Vanguard Group, Inc.	BUY	39.52	Ordinary	1,454	1,454
26-Jul-21	The Vanguard Group, Inc.	BUY	39.32	Ordinary	792	792
26-Jul-21	The Vanguard Group, Inc.	BUY	39.50	Ordinary	15,387	15,387
26-Jul-21	The Vanguard Group, Inc.	BUY	39.37	Ordinary	23,528	23,528
27-Jul-21	The Vanguard Group, Inc.	BUY	39.29	Ordinary	1,704	1,704
27-Jul-21	The Vanguard Group, Inc.	BUY	39.27	Ordinary	1,628	1,628
27-Jul-21	The Vanguard Group, Inc.	BUY	39.21	Ordinary	14,176	14,176
28-Jul-21	The Vanguard Group, Inc.	BUY	38.99	Ordinary	7,158	7,158
	The Vanguard Group, Inc.	BUY	39.01	Ordinary	10,894	10,894
	The Vanguard Group, Inc.	BUY		Ordinary	2,370	2,370
	The Vanguard Group, Inc.	BUY		Ordinary	2,370	2,370
	The Vanguard Group, Inc.	SELL		Ordinary	(5,018)	(5,018)
	The Vanguard Group, Inc.	BUY	38.84	Ordinary	9,256	9,256
	The Vanguard Group, Inc.	BUY	38.87	Ordinary	15,541	15,541
	The Vanguard Group, Inc.	SELL	38.80	Ordinary	(476)	(476
	The Vanguard Group, Inc.	BUY	38.87	Ordinary	20,395	20,395
	Vanguard Investments Australia Ltd. Vanguard Investments Australia Ltd.	BUY	40.25	Ordinary Ordinary	11,891 14,053	11,891 14,053
	Vanguard Investments Australia Ltd.	SELL	40.23	Ordinary	(40,526)	(40,526
	Vanguard Investments Australia Ltd.	SELL	40.87	Ordinary	(34,565)	(34,565)
	Vanguard Investments Australia Ltd.	SELL	40.87	Ordinary	(588)	(588)
	Vanguard Investments Australia Ltd.	INSPEC	40.92	Ordinary	(2,260,553)	(2,260,553
•	Vanguard Investments Australia Ltd.	BUY		Ordinary	9,644	9,644
•	Vanguard Investments Australia Ltd.	BUY		Ordinary	8,763	8,763
	Vanguard Investments Australia Ltd.	BUY		Ordinary	3,642	3,642
	Vanguard Investments Australia Ltd.	BUY		Ordinary	49,751	49,751
	Vanguard Investments Australia Ltd.	BUY		Ordinary	3,219	3,219
	Vanguard Investments Australia Ltd.	BUY		Ordinary	4,908	4,908
7-Apr-21	Vanguard Investments Australia Ltd.	BUY		Ordinary	19,406	19,406
	Vanguard Investments Australia Ltd.	BUY	41.39	Ordinary	4,397	4,397
7-Apr-21	Vanguard Investments Australia Ltd.	BUY	41.34	Ordinary	12,864	12,864
8-Apr-21	Vanguard Investments Australia Ltd.	SELL	41.76	Ordinary	(3,002)	(3,002
	Vanguard Investments Australia Ltd.	BUY		Ordinary	12,864	12,864
	Vanguard Investments Australia Ltd.	BUY		Ordinary	23,584	23,584
	Vanguard Investments Australia Ltd.	BUY		Ordinary	238	238
•	Vanguard Investments Australia Ltd.	BUY		Ordinary	4,708	4,708
	Vanguard Investments Australia Ltd.	SELL		Ordinary	(235)	(235
	Vanguard Investments Australia Ltd.	SELL		Ordinary	(5,066)	(5,066
	Vanguard Investments Australia Ltd.	BUY		Ordinary	21,400	21,400
•	Vanguard Investments Australia Ltd.	BUY		Ordinary	1,984	1,984
	Vanguard Investments Australia Ltd.	BUY		Ordinary	805	805
•	Vanguard Investments Australia Ltd.	BUY		Ordinary	20,453	20,453
	Vanguard Investments Australia Ltd.	BUY		Ordinary	29,936	29,936
27-Apr-21	Vanguard Investments Australia Ltd.	BUY	41.68	Ordinary	29,003	29,003

		Nature of	Consideration given in relation		Number of securities	
Date of change	Person whose relevant interest changed	Change(6)	to change(7)	Class	affected	affected
	Vanguard Investments Australia Ltd.	BUY	39.81	Ordinary	11,781	11,781
	Vanguard Investments Australia Ltd. Vanguard Investments Australia Ltd.	SELL	39.30	Ordinary Ordinary	9,260 (1,203)	9,260 (1,203)
,	Vanguard Investments Australia Ltd. Vanguard Investments Australia Ltd.	BUY	39.00	Ordinary	10,740	10,740
	Vanguard Investments Australia Ltd.	BUY		Ordinary	3,002	3,002
•	Vanguard Investments Australia Ltd. Vanguard Investments Australia Ltd.	BUY	39.36	Ordinary	3,002	3,002
	Vanguard Investments Australia Ltd.	BUY	39.26	Ordinary	16,125	16,125
	Vanguard Investments Australia Ltd.	BUY	39.42	Ordinary	48,497	48,497
	Vanguard Investments Australia Ltd.	BUY	40.94	Ordinary	197	197
	Vanguard Investments Australia Ltd.	BUY	40.29	Ordinary	2,166	2,166
13-May-21	Vanguard Investments Australia Ltd.	BUY	40.29	Ordinary	13,443	13,443
13-May-21	Vanguard Investments Australia Ltd.	BUY	40.29	Ordinary	1,254	1,254
13-May-21	Vanguard Investments Australia Ltd.	BUY	40.29	Ordinary	3,320	3,320
13-May-21	Vanguard Investments Australia Ltd.	BUY	40.29	Ordinary	768	768
13-May-21	Vanguard Investments Australia Ltd.	BUY	40.29	Ordinary	3,377	3,377
13-May-21	Vanguard Investments Australia Ltd.	BUY	40.29	Ordinary	10,494	10,494
14-May-21	Vanguard Investments Australia Ltd.	BUY	40.58	Ordinary	15,176	15,176
17-May-21	Vanguard Investments Australia Ltd.	SELL	40.45	Ordinary	(8,804)	(8,804)
17-May-21	Vanguard Investments Australia Ltd.	BUY	40.45	Ordinary	1,109	1,109
17-May-21	Vanguard Investments Australia Ltd.	BUY	40.45	Ordinary	1,067	1,067
17-May-21	Vanguard Investments Australia Ltd.	BUY	40.45	Ordinary	4,436	4,436
17-May-21	Vanguard Investments Australia Ltd.	BUY	40.45	Ordinary	484	484
17-May-21	Vanguard Investments Australia Ltd.	BUY	40.45	Ordinary	13,020	13,020
17-May-21	Vanguard Investments Australia Ltd.	BUY	40.45	Ordinary	14,638	14,638
19-May-21	Vanguard Investments Australia Ltd.	BUY	40.41	Ordinary	14,105	14,105
20-May-21	Vanguard Investments Australia Ltd.	INSPEC	40.68	Ordinary	(4,562,223)	(4,562,223)
20-May-21	Vanguard Investments Australia Ltd.	INSPEC	40.68	Ordinary	(38,936)	(38,936
21-May-21	Vanguard Investments Australia Ltd.	BUY	41.48	Ordinary	21,700	21,700
25-May-21	Vanguard Investments Australia Ltd.	BUY	41.90	Ordinary	13,020	13,020
•	Vanguard Investments Australia Ltd.	SELL		Ordinary	(9,481)	(9,481)
	Vanguard Investments Australia Ltd.	SELL	41.70	Ordinary	(6,941)	(6,941)
•	Vanguard Investments Australia Ltd.	SELL	41.70	Ordinary	(6,173)	(6,173)
	Vanguard Investments Australia Ltd.	BUY	41.67	Ordinary	3,098	3,098
•	Vanguard Investments Australia Ltd.	BUY	41.62	Ordinary	36,767	36,767
	Vanguard Investments Australia Ltd.	SELL	43.45	Ordinary	(2,927)	(2,927)
	Vanguard Investments Australia Ltd.	BUY		Ordinary	13,020	13,020
	Vanguard Investments Australia Ltd.	BUY	42.63	Ordinary	13,020	13,020
	Vanguard Investments Australia Ltd.	SELL BUY	42.72	Ordinary Ordinary	(3,891)	(3,891) 4,352
	Vanguard Investments Australia Ltd. Vanguard Investments Australia Ltd.	BUY	43.35 43.35	Ordinary	4,352 10,880	
	Vanguard Investments Australia Ltd. Vanguard Investments Australia Ltd.	INSPEC		Ordinary	(2,211,783)	10,880
	Vanguard Investments Australia Ltd.	INSPEC		Ordinary	(1,058,136)	(1,058,136)
	Vanguard Investments Australia Ltd.	INSPEC		Ordinary	(899,046)	(899,046
	Vanguard Investments Australia Ltd.	SELL		Ordinary	(4,900)	(4,900
	Vanguard Investments Australia Ltd.	BUY		Ordinary	13,140	13,140
	Vanguard Investments Australia Ltd.	SELL		Ordinary	(15,875)	(15,875
	Vanguard Investments Australia Ltd.	SELL		Ordinary	(1,508)	(1,508
	Vanguard Investments Australia Ltd.	BUY		Ordinary	5,450	5,450
	Vanguard Investments Australia Ltd.	BUY		Ordinary	64,116	64,116
	Vanguard Investments Australia Ltd.	BUY		Ordinary	28,493	28,493
	Vanguard Investments Australia Ltd.	BUY		Ordinary	15,288	15,288
	Vanguard Investments Australia Ltd.	BUY		Ordinary	22,863	22,863
	Vanguard Investments Australia Ltd.	BUY		Ordinary	15,302	15,302
	Vanguard Investments Australia Ltd.	BUY		Ordinary	18,581	18,581
12-Jul-21	Vanguard Investments Australia Ltd.	BUY	38.01	Ordinary	1,713	1,713
	Vanguard Investments Australia Ltd.	BUY		Ordinary	16,552	16,552
	Vanguard Investments Australia Ltd.	BUY		Ordinary	614	614
	Vanguard Investments Australia Ltd.	BUY		Ordinary	73,538	73,538
	Vanguard Investments Australia Ltd.	BUY		Ordinary	33,708	33,708
	Vanguard Investments Australia Ltd.	BUY		Ordinary	8,293	8,293
	Vanguard Investments Australia Ltd.	SELL		Ordinary	(3,011)	(3,011
	Vanguard Investments Australia Ltd.	BUY		Ordinary	5,465	5,465

			Consideration given in relation		Number of securities	
Date of change	Person whose relevant interest changed	Change(6)	to change(7)	Class	affected	affected
20-Jul-21	Vanguard Investments Australia Ltd.	SELL	38.50	Ordinary	(1,735)	(1,735)
20-Jul-21	Vanguard Investments Australia Ltd.	BUY	38.50	Ordinary	13,104	13,104
20-Jul-21	Vanguard Investments Australia Ltd.	BUY	38.50	Ordinary	16,548	16,548
22-Jul-21	Vanguard Investments Australia Ltd.	BUY	39.17	Ordinary	16,358	16,358
23-Jul-21	Vanguard Investments Australia Ltd.	BUY	39.52	Ordinary	13,104	13,104
26-Jul-21	Vanguard Investments Australia Ltd.	SELL	39.32	Ordinary	(6,443)	(6,443)
27-Jul-21	Vanguard Investments Australia Ltd.	INSPEC	39.29	Ordinary	(1,114,183)	(1,114,183)
29-Jul-21	Vanguard Investments Australia Ltd.	BUY	38.79	Ordinary	1,546	1,546
29-Jul-21	Vanguard Investments Australia Ltd.	BUY	38.79	Ordinary	16,522	16,522

This is Annexure A of 7 pages referred to in Form 603, notice of initial substantial holder.

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Name: Shawn Acker

Capacity: Compliance Manager

Date: 03 August 2021