

Form 603
Corporations Act 2001
Section 671B

Notice of initial substantial holder

To Company Name/Scheme CSL Limited

ACN/ARSN 051 588 348

1. Details of substantial holder (1)

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

ACN/ARSN (if applicable) N/A

The holder became a substantial holder on 9 November 2022

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	24,112,875	24,112,875	5.0004%
Note: Vanguard Group also holds 14,695 shares of CSL Limited ADR			

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 and accounts and in that capacity has the power to dispose of the shares. The other members of Vanguard Group have a relevant interest under section 608(3) of the Corporations Act.	Ordinary – 24,112,875

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 – 1,348,765
Vanguard Group	BNY Mellon	Various funds and other accounts of Vanguard Group	Ordinary – 2,121,622
Vanguard Group	JP Morgan Chase Bank, N.A.	Various funds and other accounts of Vanguard Group	Ordinary – 16,491,192
Vanguard Group	State Street Bank and Trust Company	Various funds and other accounts of Vanguard Group	Ordinary – 4,151,242
Vanguard Personalized Indexing Management LLC	Various Others	Various funds and other accounts of Vanguard Group	Ordinary - 54

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  date 14 November 2022

DIRECTIONS

- (1) If there are a number of substantial holders with similar or related 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 7 of the form.
 - (2) See the definition of "associate" in section 9 of the Corporations Act 2001.
 - (3) See the definition of "relevant interest" in sections 608 and 671B(7) of the Corporations Act 2001.
 - (4) The voting shares of a company constitute one class unless divided into separate classes.
 - (5) The total number of votes attached to all the voting shares in the company or voting interests in the scheme (if any) that the person or an Associate has a relevant interest in.
 - (6) The person's votes divided by the total votes in the body corporate or scheme multiplied by 100.
 - (7) Include details of:
 - (a) any relevant agreement or other circumstances by which the relevant interest was acquired. 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.
- (8) If the substantial holder is unable to determine the identity of the person (eg. if the relevant interest arises because of an option) write "unknown".
 - (9) Details of the consideration must include any and all benefits, moneys and other, that any person from whom a relevant interest has 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 of its associate in relation to the acquisitions, even if they are not paid directly to the person from whom the relevant interest was acquired.

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
2-Aug-2022	The Vanguard Group, Inc.	BUY	296.90	Ordinary	1,398	1,398
3-Aug-2022	The Vanguard Group, Inc.	BUY	297.70	Ordinary	3,970	3,970
3-Aug-2022	The Vanguard Group, Inc.	BUY	297.72	Ordinary	3,987	3,987
3-Aug-2022	The Vanguard Group, Inc.	BUY	297.72	Ordinary	1,329	1,329
4-Aug-2022	The Vanguard Group, Inc.	BUY	294.59	Ordinary	346	346
4-Aug-2022	The Vanguard Group, Inc.	BUY	294.59	Ordinary	947	947
4-Aug-2022	The Vanguard Group, Inc.	BUY	294.59	Ordinary	915	915
4-Aug-2022	The Vanguard Group, Inc.	BUY	294.59	Ordinary	2,678	2,678
4-Aug-2022	The Vanguard Group, Inc.	BUY	294.70	Ordinary	1,569	1,569
4-Aug-2022	The Vanguard Group, Inc.	BUY	294.70	Ordinary	1,329	1,329
4-Aug-2022	The Vanguard Group, Inc.	BUY	295.64	Ordinary	7,871	7,871
4-Aug-2022	The Vanguard Group, Inc.	BUY	294.70	Ordinary	2,376	2,376
4-Aug-2022	The Vanguard Group, Inc.	BUY	295.64	Ordinary	3,130	3,130
5-Aug-2022	The Vanguard Group, Inc.	BUY	294.18	Ordinary	219	219
8-Aug-2022	The Vanguard Group, Inc.	BUY	295.64	Ordinary	168	168
8-Aug-2022	The Vanguard Group, Inc.	BUY	292.90	Ordinary	1,649	1,649
9-Aug-2022	The Vanguard Group, Inc.	BUY	296.97	Ordinary	1,190	1,190
9-Aug-2022	The Vanguard Group, Inc.	BUY	295.96	Ordinary	7,803	7,803
9-Aug-2022	The Vanguard Group, Inc.	SELL	297.34	Ordinary	(438)	(438)
9-Aug-2022	The Vanguard Group, Inc.	BUY	295.96	Ordinary	2,034	2,034
10-Aug-2022	The Vanguard Group, Inc.	BUY	292.35	Ordinary	167	167
10-Aug-2022	The Vanguard Group, Inc.	BUY	294.31	Ordinary	1,272	1,272
10-Aug-2022	The Vanguard Group, Inc.	BUY	294.56	Ordinary	5,274	5,274
10-Aug-2022	The Vanguard Group, Inc.	BUY	294.31	Ordinary	3,144	3,144
10-Aug-2022	The Vanguard Group, Inc.	BUY	294.31	Ordinary	3,668	3,668
10-Aug-2022	The Vanguard Group, Inc.	BUY	294.31	Ordinary	6,288	6,288
10-Aug-2022	The Vanguard Group, Inc.	BUY	294.31	Ordinary	2,620	2,620
10-Aug-2022	The Vanguard Group, Inc.	BUY	292.35	Ordinary	4,295	4,295
10-Aug-2022	The Vanguard Group, Inc.	BUY	294.31	Ordinary	4,950	4,950
10-Aug-2022	The Vanguard Group, Inc.	BUY	294.31	Ordinary	375	375
11-Aug-2022	The Vanguard Group, Inc.	BUY	295.10	Ordinary	3,718	3,718
11-Aug-2022	The Vanguard Group, Inc.	BUY	295.10	Ordinary	2,174	2,174
12-Aug-2022	The Vanguard Group, Inc.	BUY	292.85	Ordinary	202	202
15-Aug-2022	The Vanguard Group, Inc.	BUY	294.14	Ordinary	1,401	1,401
15-Aug-2022	The Vanguard Group, Inc.	BUY	294.14	Ordinary	1,401	1,401
16-Aug-2022	The Vanguard Group, Inc.	BUY	296.40	Ordinary	397	397
16-Aug-2022	The Vanguard Group, Inc.	BUY	296.76	Ordinary	2,096	2,096
17-Aug-2022	The Vanguard Group, Inc.	BUY	282.27	Ordinary	2,751	2,751
17-Aug-2022	The Vanguard Group, Inc.	BUY	291.55	Ordinary	934	934
18-Aug-2022	The Vanguard Group, Inc.	BUY	299.20	Ordinary	348	348
18-Aug-2022	The Vanguard Group, Inc.	SELL	292.60	Ordinary	(181)	(181)
18-Aug-2022	The Vanguard Group, Inc.	BUY	299.34	Ordinary	1,280	1,280
18-Aug-2022	The Vanguard Group, Inc.	BUY	292.60	Ordinary	1,717	1,717
19-Aug-2022	The Vanguard Group, Inc.	BUY	295.49	Ordinary	3,939	3,939
19-Aug-2022	The Vanguard Group, Inc.	BUY	293.82	Ordinary	320	320
19-Aug-2022	The Vanguard Group, Inc.	BUY	295.49	Ordinary	2,662	2,662
22-Aug-2022	The Vanguard Group, Inc.	BUY	294.00	Ordinary	4,200	4,200
22-Aug-2022	The Vanguard Group, Inc.	BUY	295.14	Ordinary	4,412	4,412
22-Aug-2022	The Vanguard Group, Inc.	BUY	295.14	Ordinary	4,940	4,940
23-Aug-2022	The Vanguard Group, Inc.	BUY	289.89	Ordinary	2,625	2,625
23-Aug-2022	The Vanguard Group, Inc.	BUY	292.18	Ordinary	4,162	4,162
24-Aug-2022	The Vanguard Group, Inc.	BUY	289.19	Ordinary	1,485	1,485
24-Aug-2022	The Vanguard Group, Inc.	BUY	288.63	Ordinary	1,639	1,639
24-Aug-2022	The Vanguard Group, Inc.	BUY	288.63	Ordinary	481	481
24-Aug-2022	The Vanguard Group, Inc.	BUY	288.63	Ordinary	287	287
25-Aug-2022	The Vanguard Group, Inc.	BUY	287.28	Ordinary	2,592	2,592
26-Aug-2022	The Vanguard Group, Inc.	BUY	293.79	Ordinary	5,671	5,671
29-Aug-2022	The Vanguard Group, Inc.	BUY	294.41	Ordinary	2,625	2,625
30-Aug-2022	The Vanguard Group, Inc.	BUY	292.31	Ordinary	3,555	3,555
30-Aug-2022	The Vanguard Group, Inc.	BUY	292.31	Ordinary	249	249
31-Aug-2022	The Vanguard Group, Inc.	BUY	293.54	Ordinary	957	957
31-Aug-2022	The Vanguard Group, Inc.	BUY	293.54	Ordinary	413	413
31-Aug-2022	The Vanguard Group, Inc.	BUY	293.54	Ordinary	1,392	1,392
31-Aug-2022	The Vanguard Group, Inc.	BUY	293.54	Ordinary	746	746
31-Aug-2022	The Vanguard Group, Inc.	BUY	293.54	Ordinary	4,164	4,164
31-Aug-2022	The Vanguard Group, Inc.	BUY	292.32	Ordinary	375	375
1-Sep-2022	The Vanguard Group, Inc.	BUY	293.79	Ordinary	846	846
1-Sep-2022	The Vanguard Group, Inc.	SELL	291.00	Ordinary	(263)	(263)
1-Sep-2022	The Vanguard Group, Inc.	BUY	290.96	Ordinary	1,910	1,910

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
1-Sep-2022	The Vanguard Group, Inc.	BUY	290.96	Ordinary	5,668	5,668
2-Sep-2022	The Vanguard Group, Inc.	BUY	295.14	Ordinary	3,675	3,675
2-Sep-2022	The Vanguard Group, Inc.	BUY	295.14	Ordinary	2,625	2,625
2-Sep-2022	The Vanguard Group, Inc.	BUY	295.50	Ordinary	3,345	3,345
2-Sep-2022	The Vanguard Group, Inc.	SELL	295.99	Ordinary	(169)	(169)
5-Sep-2022	The Vanguard Group, Inc.	BUY	295.04	Ordinary	6,212	6,212
5-Sep-2022	The Vanguard Group, Inc.	BUY	295.04	Ordinary	10,554	10,554
6-Sep-2022	The Vanguard Group, Inc.	BUY	294.00	Ordinary	350	350
6-Sep-2022	The Vanguard Group, Inc.	BUY	294.00	Ordinary	141	141
7-Sep-2022	The Vanguard Group, Inc.	BUY	292.46	Ordinary	7,675	7,675
7-Sep-2022	The Vanguard Group, Inc.	BUY	295.12	Ordinary	1,980	1,980
7-Sep-2022	The Vanguard Group, Inc.	BUY	295.12	Ordinary	3,960	3,960
7-Sep-2022	The Vanguard Group, Inc.	BUY	292.08	Ordinary	90	90
8-Sep-2022	The Vanguard Group, Inc.	BUY	299.61	Ordinary	170	170
8-Sep-2022	The Vanguard Group, Inc.	BUY	299.61	Ordinary	282	282
8-Sep-2022	The Vanguard Group, Inc.	BUY	297.75	Ordinary	4,572	4,572
8-Sep-2022	The Vanguard Group, Inc.	BUY	297.75	Ordinary	3,541	3,541
9-Sep-2022	The Vanguard Group, Inc.	BUY	298.64	Ordinary	350	350
9-Sep-2022	The Vanguard Group, Inc.	BUY	300.25	Ordinary	2,625	2,625
12-Sep-2022	The Vanguard Group, Inc.	BUY	297.36	Ordinary	4,200	4,200
12-Sep-2022	The Vanguard Group, Inc.	BUY	297.36	Ordinary	1,881	1,881
13-Sep-2022	The Vanguard Group, Inc.	BUY	290.66	Ordinary	1,683	1,683
13-Sep-2022	The Vanguard Group, Inc.	BUY	293.96	Ordinary	249	249
14-Sep-2022	The Vanguard Group, Inc.	SELL	289.63	Ordinary	(24,349)	(24,349)
15-Sep-2022	The Vanguard Group, Inc.	BUY	287.61	Ordinary	168	168
16-Sep-2022	The Vanguard Group, Inc.	BUY	285.83	Ordinary	350	350
16-Sep-2022	The Vanguard Group, Inc.	BUY	285.83	Ordinary	376	376
16-Sep-2022	The Vanguard Group, Inc.	SELL	287.87	Ordinary	(2,223)	(2,223)
16-Sep-2022	The Vanguard Group, Inc.	BUY	285.83	Ordinary	171	171
16-Sep-2022	The Vanguard Group, Inc.	SELL	285.83	Ordinary	(3,020)	(3,020)
16-Sep-2022	The Vanguard Group, Inc.	BUY	285.83	Ordinary	10,628	10,628
16-Sep-2022	The Vanguard Group, Inc.	SELL	285.83	Ordinary	(11,586)	(11,586)
16-Sep-2022	The Vanguard Group, Inc.	BUY	285.83	Ordinary	950	950
16-Sep-2022	The Vanguard Group, Inc.	SELL	285.83	Ordinary	(8,279)	(8,279)
16-Sep-2022	The Vanguard Group, Inc.	BUY	285.83	Ordinary	402	402
16-Sep-2022	The Vanguard Group, Inc.	SELL	285.83	Ordinary	(991)	(991)
16-Sep-2022	The Vanguard Group, Inc.	BUY	285.83	Ordinary	10	10
16-Sep-2022	The Vanguard Group, Inc.	SELL	285.83	Ordinary	(65)	(65)
16-Sep-2022	The Vanguard Group, Inc.	BUY	285.83	Ordinary	821	821
19-Sep-2022	The Vanguard Group, Inc.	BUY	284.32	Ordinary	1,500	1,500
20-Sep-2022	The Vanguard Group, Inc.	BUY	283.02	Ordinary	10,644	10,644
21-Sep-2022	The Vanguard Group, Inc.	BUY	281.14	Ordinary	519	519
21-Sep-2022	The Vanguard Group, Inc.	BUY	279.50	Ordinary	3,156	3,156
21-Sep-2022	The Vanguard Group, Inc.	BUY	282.00	Ordinary	413	413
21-Sep-2022	The Vanguard Group, Inc.	BUY	279.50	Ordinary	387	387
23-Sep-2022	The Vanguard Group, Inc.	BUY	278.14	Ordinary	346	346
23-Sep-2022	The Vanguard Group, Inc.	BUY	278.14	Ordinary	1,368	1,368
23-Sep-2022	The Vanguard Group, Inc.	BUY	278.77	Ordinary	8,799	8,799
23-Sep-2022	The Vanguard Group, Inc.	BUY	278.77	Ordinary	1,237	1,237
26-Sep-2022	The Vanguard Group, Inc.	BUY	284.81	Ordinary	168	168
26-Sep-2022	The Vanguard Group, Inc.	BUY	284.81	Ordinary	346	346
26-Sep-2022	The Vanguard Group, Inc.	BUY	284.81	Ordinary	844	844
26-Sep-2022	The Vanguard Group, Inc.	BUY	284.81	Ordinary	7,555	7,555
26-Sep-2022	The Vanguard Group, Inc.	BUY	285.01	Ordinary	710	710
26-Sep-2022	The Vanguard Group, Inc.	BUY	285.01	Ordinary	4,208	4,208
26-Sep-2022	The Vanguard Group, Inc.	BUY	285.01	Ordinary	1,500	1,500
27-Sep-2022	The Vanguard Group, Inc.	BUY	284.64	Ordinary	169	169
27-Sep-2022	The Vanguard Group, Inc.	BUY	284.64	Ordinary	143	143
27-Sep-2022	The Vanguard Group, Inc.	SELL	286.42	Ordinary	(391)	(391)
27-Sep-2022	The Vanguard Group, Inc.	BUY	283.73	Ordinary	1,268	1,268
27-Sep-2022	The Vanguard Group, Inc.	BUY	284.96	Ordinary	10,448	10,448
27-Sep-2022	The Vanguard Group, Inc.	BUY	283.73	Ordinary	300	300
27-Sep-2022	The Vanguard Group, Inc.	BUY	286.42	Ordinary	2,185	2,185
27-Sep-2022	The Vanguard Group, Inc.	BUY	284.64	Ordinary	344	344
28-Sep-2022	The Vanguard Group, Inc.	BUY	282.35	Ordinary	338	338
28-Sep-2022	The Vanguard Group, Inc.	BUY	282.35	Ordinary	338	338
28-Sep-2022	The Vanguard Group, Inc.	SELL	279.70	Ordinary	(2,669)	(2,669)
28-Sep-2022	The Vanguard Group, Inc.	BUY	282.35	Ordinary	1,603	1,603
28-Sep-2022	The Vanguard Group, Inc.	BUY	282.35	Ordinary	6,629	6,629

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
28-Sep-2022	The Vanguard Group, Inc.	BUY	282.35	Ordinary	2,138	2,138
28-Sep-2022	The Vanguard Group, Inc.	BUY	282.35	Ordinary	11,127	11,127
28-Sep-2022	The Vanguard Group, Inc.	BUY	282.35	Ordinary	5,828	5,828
28-Sep-2022	The Vanguard Group, Inc.	BUY	282.35	Ordinary	303	303
28-Sep-2022	The Vanguard Group, Inc.	SELL	279.70	Ordinary	(3,340)	(3,340)
29-Sep-2022	The Vanguard Group, Inc.	BUY	286.74	Ordinary	1,277	1,277
29-Sep-2022	The Vanguard Group, Inc.	BUY	285.58	Ordinary	1,264	1,264
29-Sep-2022	The Vanguard Group, Inc.	BUY	284.83	Ordinary	5,498	5,498
30-Sep-2022	The Vanguard Group, Inc.	BUY	284.94	Ordinary	5,272	5,272
30-Sep-2022	The Vanguard Group, Inc.	BUY	285.02	Ordinary	529	529
30-Sep-2022	The Vanguard Group, Inc.	BUY	284.94	Ordinary	4,145	4,145
3-Oct-2022	The Vanguard Group, Inc.	SELL	284.84	Ordinary	(278)	(278)
3-Oct-2022	The Vanguard Group, Inc.	BUY	285.91	Ordinary	1,260	1,260
3-Oct-2022	The Vanguard Group, Inc.	BUY	285.91	Ordinary	1,500	1,500
3-Oct-2022	The Vanguard Group, Inc.	BUY	284.22	Ordinary	8,553	8,553
4-Oct-2022	The Vanguard Group, Inc.	BUY	287.40	Ordinary	519	519
4-Oct-2022	The Vanguard Group, Inc.	BUY	289.65	Ordinary	1,260	1,260
4-Oct-2022	The Vanguard Group, Inc.	BUY	289.65	Ordinary	1,260	1,260
4-Oct-2022	The Vanguard Group, Inc.	BUY	289.65	Ordinary	1,890	1,890
4-Oct-2022	The Vanguard Group, Inc.	BUY	289.65	Ordinary	1,784	1,784
4-Oct-2022	The Vanguard Group, Inc.	BUY	287.69	Ordinary	7,308	7,308
4-Oct-2022	The Vanguard Group, Inc.	BUY	287.69	Ordinary	9,228	9,228
5-Oct-2022	The Vanguard Group, Inc.	BUY	290.50	Ordinary	344	344
5-Oct-2022	The Vanguard Group, Inc.	BUY	290.45	Ordinary	200	200
5-Oct-2022	The Vanguard Group, Inc.	BUY	290.45	Ordinary	2,156	2,156
5-Oct-2022	The Vanguard Group, Inc.	BUY	290.45	Ordinary	7,031	7,031
5-Oct-2022	The Vanguard Group, Inc.	BUY	290.65	Ordinary	936	936
5-Oct-2022	The Vanguard Group, Inc.	BUY	290.50	Ordinary	270	270
6-Oct-2022	The Vanguard Group, Inc.	BUY	290.20	Ordinary	845	845
6-Oct-2022	The Vanguard Group, Inc.	BUY	288.98	Ordinary	705	705
6-Oct-2022	The Vanguard Group, Inc.	BUY	290.25	Ordinary	1,271	1,271
6-Oct-2022	The Vanguard Group, Inc.	BUY	290.25	Ordinary	2,369	2,369
6-Oct-2022	The Vanguard Group, Inc.	BUY	288.98	Ordinary	258	258
6-Oct-2022	The Vanguard Group, Inc.	BUY	290.25	Ordinary	5,441	5,441
7-Oct-2022	The Vanguard Group, Inc.	BUY	286.64	Ordinary	564	564
10-Oct-2022	The Vanguard Group, Inc.	BUY	284.02	Ordinary	2,127	2,127
10-Oct-2022	The Vanguard Group, Inc.	BUY	284.02	Ordinary	4,005	4,005
11-Oct-2022	The Vanguard Group, Inc.	BUY	282.86	Ordinary	890	890
11-Oct-2022	The Vanguard Group, Inc.	BUY	283.51	Ordinary	206	206
11-Oct-2022	The Vanguard Group, Inc.	BUY	282.62	Ordinary	700	700
11-Oct-2022	The Vanguard Group, Inc.	BUY	282.62	Ordinary	1,578	1,578
11-Oct-2022	The Vanguard Group, Inc.	BUY	282.62	Ordinary	387	387
11-Oct-2022	The Vanguard Group, Inc.	BUY	283.51	Ordinary	158	158
12-Oct-2022	The Vanguard Group, Inc.	BUY	279.70	Ordinary	142	142
12-Oct-2022	The Vanguard Group, Inc.	BUY	279.70	Ordinary	45	45
12-Oct-2022	The Vanguard Group, Inc.	BUY	278.82	Ordinary	705	705
12-Oct-2022	The Vanguard Group, Inc.	BUY	278.82	Ordinary	4,200	4,200
12-Oct-2022	The Vanguard Group, Inc.	BUY	281.36	Ordinary	8,186	8,186
13-Oct-2022	The Vanguard Group, Inc.	SELL	276.43	Ordinary	(26,075)	(26,075)
13-Oct-2022	The Vanguard Group, Inc.	BUY	279.20	Ordinary	987	987
13-Oct-2022	The Vanguard Group, Inc.	BUY	277.07	Ordinary	3,822	3,822
13-Oct-2022	The Vanguard Group, Inc.	BUY	277.07	Ordinary	192	192
14-Oct-2022	The Vanguard Group, Inc.	BUY	280.69	Ordinary	412	412
14-Oct-2022	The Vanguard Group, Inc.	BUY	280.69	Ordinary	2,488	2,488
17-Oct-2022	The Vanguard Group, Inc.	BUY	278.72	Ordinary	987	987
17-Oct-2022	The Vanguard Group, Inc.	BUY	276.21	Ordinary	3,188	3,188
17-Oct-2022	The Vanguard Group, Inc.	BUY	276.21	Ordinary	5,793	5,793
17-Oct-2022	The Vanguard Group, Inc.	BUY	278.72	Ordinary	1,000	1,000
17-Oct-2022	The Vanguard Group, Inc.	BUY	276.21	Ordinary	9,151	9,151
18-Oct-2022	The Vanguard Group, Inc.	BUY	277.92	Ordinary	7,137	7,137
18-Oct-2022	The Vanguard Group, Inc.	BUY	274.91	Ordinary	645	645
19-Oct-2022	The Vanguard Group, Inc.	BUY	275.71	Ordinary	2,112	2,112
19-Oct-2022	The Vanguard Group, Inc.	BUY	275.59	Ordinary	695	695
19-Oct-2022	The Vanguard Group, Inc.	BUY	276.96	Ordinary	414	414
20-Oct-2022	The Vanguard Group, Inc.	BUY	270.58	Ordinary	276	276
20-Oct-2022	The Vanguard Group, Inc.	BUY	270.58	Ordinary	552	552
20-Oct-2022	The Vanguard Group, Inc.	BUY	270.58	Ordinary	4,200	4,200
21-Oct-2022	The Vanguard Group, Inc.	BUY	267.50	Ordinary	237	237
21-Oct-2022	The Vanguard Group, Inc.	BUY	267.50	Ordinary	886	886

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
21-Oct-2022	The Vanguard Group, Inc.	BUY	270.20	Ordinary	1,575	1,575
21-Oct-2022	The Vanguard Group, Inc.	BUY	270.20	Ordinary	1,260	1,260
21-Oct-2022	The Vanguard Group, Inc.	BUY	270.20	Ordinary	3,144	3,144
21-Oct-2022	The Vanguard Group, Inc.	BUY	270.20	Ordinary	3,668	3,668
21-Oct-2022	The Vanguard Group, Inc.	BUY	270.20	Ordinary	3,122	3,122
21-Oct-2022	The Vanguard Group, Inc.	BUY	269.46	Ordinary	4,349	4,349
24-Oct-2022	The Vanguard Group, Inc.	BUY	275.21	Ordinary	414	414
24-Oct-2022	The Vanguard Group, Inc.	BUY	272.31	Ordinary	6,530	6,530
24-Oct-2022	The Vanguard Group, Inc.	BUY	275.21	Ordinary	1,404	1,404
25-Oct-2022	The Vanguard Group, Inc.	SELL	276.00	Ordinary	(336)	(336)
25-Oct-2022	The Vanguard Group, Inc.	BUY	277.36	Ordinary	1,260	1,260
25-Oct-2022	The Vanguard Group, Inc.	BUY	277.39	Ordinary	8,847	8,847
25-Oct-2022	The Vanguard Group, Inc.	BUY	276.00	Ordinary	270	270
25-Oct-2022	The Vanguard Group, Inc.	BUY	277.39	Ordinary	94	94
26-Oct-2022	The Vanguard Group, Inc.	SELL	276.21	Ordinary	(1,581)	(1,581)
26-Oct-2022	The Vanguard Group, Inc.	BUY	276.21	Ordinary	2,757	2,757
26-Oct-2022	The Vanguard Group, Inc.	BUY	275.03	Ordinary	3,465	3,465
26-Oct-2022	The Vanguard Group, Inc.	BUY	275.03	Ordinary	4,716	4,716
26-Oct-2022	The Vanguard Group, Inc.	BUY	275.03	Ordinary	2,000	2,000
26-Oct-2022	The Vanguard Group, Inc.	BUY	275.03	Ordinary	936	936
26-Oct-2022	The Vanguard Group, Inc.	SELL	275.31	Ordinary	(86)	(86)
27-Oct-2022	The Vanguard Group, Inc.	BUY	275.89	Ordinary	702	702
28-Oct-2022	The Vanguard Group, Inc.	SELL	273.97	Ordinary	(296)	(296)
28-Oct-2022	The Vanguard Group, Inc.	BUY	276.84	Ordinary	3,144	3,144
28-Oct-2022	The Vanguard Group, Inc.	BUY	276.84	Ordinary	387	387
28-Oct-2022	The Vanguard Group, Inc.	BUY	274.35	Ordinary	5,146	5,146
28-Oct-2022	The Vanguard Group, Inc.	BUY	274.35	Ordinary	3,443	3,443
31-Oct-2022	The Vanguard Group, Inc.	BUY	279.86	Ordinary	2,340	2,340
31-Oct-2022	The Vanguard Group, Inc.	BUY	278.60	Ordinary	437	437
1-Nov-2022	The Vanguard Group, Inc.	BUY	280.68	Ordinary	195	195
1-Nov-2022	The Vanguard Group, Inc.	BUY	282.38	Ordinary	552	552
1-Nov-2022	The Vanguard Group, Inc.	BUY	282.38	Ordinary	6,812	6,812
2-Nov-2022	The Vanguard Group, Inc.	BUY	279.45	Ordinary	1,668	1,668
2-Nov-2022	The Vanguard Group, Inc.	BUY	284.39	Ordinary	6,620	6,620
3-Nov-2022	The Vanguard Group, Inc.	BUY	278.34	Ordinary	344	344
3-Nov-2022	The Vanguard Group, Inc.	BUY	277.62	Ordinary	3,000	3,000
3-Nov-2022	The Vanguard Group, Inc.	BUY	280.40	Ordinary	608	608
3-Nov-2022	The Vanguard Group, Inc.	BUY	277.62	Ordinary	4,212	4,212
4-Nov-2022	The Vanguard Group, Inc.	BUY	275.60	Ordinary	143	143
4-Nov-2022	The Vanguard Group, Inc.	BUY	276.97	Ordinary	2,844	2,844
4-Nov-2022	The Vanguard Group, Inc.	BUY	276.97	Ordinary	552	552
4-Nov-2022	The Vanguard Group, Inc.	BUY	276.97	Ordinary	3,668	3,668
4-Nov-2022	The Vanguard Group, Inc.	BUY	276.97	Ordinary	3,144	3,144
4-Nov-2022	The Vanguard Group, Inc.	BUY	275.85	Ordinary	4,030	4,030
4-Nov-2022	The Vanguard Group, Inc.	BUY	275.85	Ordinary	150	150
7-Nov-2022	The Vanguard Group, Inc.	BUY	276.02	Ordinary	7,961	7,961
8-Nov-2022	The Vanguard Group, Inc.	BUY	280.70	Ordinary	346	346
8-Nov-2022	The Vanguard Group, Inc.	BUY	279.92	Ordinary	4,087	4,087
8-Nov-2022	The Vanguard Group, Inc.	BUY	279.92	Ordinary	4,227	4,227
9-Nov-2022	The Vanguard Group, Inc.	BUY	279.61	Ordinary	4,180	4,180
9-Nov-2022	The Vanguard Group, Inc.	BUY	279.61	Ordinary	6,855	6,855
9-Nov-2022	The Vanguard Group, Inc.	BUY	279.61	Ordinary	2,187	2,187
9-Nov-2022	The Vanguard Group, Inc.	BUY	279.61	Ordinary	951	951
11-Jul-2022	Vanguard Investments Australia Ltd.	BUY	287.99	Ordinary	3,900	3,900
13-Jul-2022	Vanguard Investments Australia Ltd.	SELL	293.80	Ordinary	(12,444)	(12,444)
14-Jul-2022	Vanguard Investments Australia Ltd.	BUY	296.20	Ordinary	2,541	2,541
15-Jul-2022	Vanguard Investments Australia Ltd.	BUY	299.25	Ordinary	2,737	2,737
15-Jul-2022	Vanguard Investments Australia Ltd.	SELL	299.25	Ordinary	(5,083)	(5,083)
15-Jul-2022	Vanguard Investments Australia Ltd.	BUY	299.25	Ordinary	535	535
20-Jul-2022	Vanguard Investments Australia Ltd.	BUY	291.23	Ordinary	3,120	3,120
20-Jul-2022	Vanguard Investments Australia Ltd.	BUY	291.23	Ordinary	7,800	7,800
20-Jul-2022	Vanguard Investments Australia Ltd.	BUY	291.23	Ordinary	794	794
21-Jul-2022	Vanguard Investments Australia Ltd.	BUY	295.24	Ordinary	13,094	13,094
21-Jul-2022	Vanguard Investments Australia Ltd.	BUY	295.24	Ordinary	499	499
22-Jul-2022	Vanguard Investments Australia Ltd.	BUY	293.47	Ordinary	5,850	5,850
27-Jul-2022	Vanguard Investments Australia Ltd.	BUY	291.83	Ordinary	1,599	1,599
28-Jul-2022	Vanguard Investments Australia Ltd.	BUY	291.40	Ordinary	5,850	5,850
28-Jul-2022	Vanguard Investments Australia Ltd.	BUY	291.40	Ordinary	726	726
1-Aug-2022	Vanguard Investments Australia Ltd.	SELL	294.91	Ordinary	(533)	(533)

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
2-Aug-2022	Vanguard Investments Australia Ltd.	BUY	296.85	Ordinary	1,950	1,950
4-Aug-2022	Vanguard Investments Australia Ltd.	BUY	294.59	Ordinary	5,850	5,850
4-Aug-2022	Vanguard Investments Australia Ltd.	BUY	294.59	Ordinary	1,452	1,452
4-Aug-2022	Vanguard Investments Australia Ltd.	BUY	294.59	Ordinary	1,815	1,815
8-Aug-2022	Vanguard Investments Australia Ltd.	BUY	295.64	Ordinary	1,950	1,950
11-Aug-2022	Vanguard Investments Australia Ltd.	BUY	295.10	Ordinary	534	534
15-Aug-2022	Vanguard Investments Australia Ltd.	BUY	293.24	Ordinary	499	499
16-Aug-2022	Vanguard Investments Australia Ltd.	BUY	296.40	Ordinary	1,950	1,950
18-Aug-2022	Vanguard Investments Australia Ltd.	BUY	299.20	Ordinary	2,340	2,340
19-Aug-2022	Vanguard Investments Australia Ltd.	BUY	294.67	Ordinary	5,850	5,850
24-Aug-2022	Vanguard Investments Australia Ltd.	BUY	288.63	Ordinary	5,865	5,865
29-Aug-2022	Vanguard Investments Australia Ltd.	BUY	294.24	Ordinary	1,072	1,072
31-Aug-2022	Vanguard Investments Australia Ltd.	BUY	293.54	Ordinary	7,820	7,820
31-Aug-2022	Vanguard Investments Australia Ltd.	BUY	293.54	Ordinary	177	177
1-Sep-2022	Vanguard Investments Australia Ltd.	BUY	293.79	Ordinary	1,970	1,970
1-Sep-2022	Vanguard Investments Australia Ltd.	BUY	293.79	Ordinary	655	655
2-Sep-2022	Vanguard Investments Australia Ltd.	SELL	295.99	Ordinary	(543)	(543)
5-Sep-2022	Vanguard Investments Australia Ltd.	BUY	294.80	Ordinary	9,875	9,875
5-Sep-2022	Vanguard Investments Australia Ltd.	BUY	294.80	Ordinary	130	130
8-Sep-2022	Vanguard Investments Australia Ltd.	BUY	299.61	Ordinary	2,772	2,772
8-Sep-2022	Vanguard Investments Australia Ltd.	BUY	299.61	Ordinary	15,827	15,827
8-Sep-2022	Vanguard Investments Australia Ltd.	BUY	299.61	Ordinary	217	217
9-Sep-2022	Vanguard Investments Australia Ltd.	BUY	298.64	Ordinary	9,900	9,900
12-Sep-2022	Vanguard Investments Australia Ltd.	BUY	296.30	Ordinary	1,980	1,980
12-Sep-2022	Vanguard Investments Australia Ltd.	BUY	296.30	Ordinary	546	546
16-Sep-2022	Vanguard Investments Australia Ltd.	BUY	285.83	Ordinary	55,024	55,024
16-Sep-2022	Vanguard Investments Australia Ltd.	BUY	285.83	Ordinary	3,207	3,207
16-Sep-2022	Vanguard Investments Australia Ltd.	BUY	285.83	Ordinary	546	546
19-Sep-2022	Vanguard Investments Australia Ltd.	BUY	282.98	Ordinary	1,970	1,970
20-Sep-2022	Vanguard Investments Australia Ltd.	BUY	283.03	Ordinary	1,970	1,970
23-Sep-2022	Vanguard Investments Australia Ltd.	BUY	278.14	Ordinary	3,152	3,152
23-Sep-2022	Vanguard Investments Australia Ltd.	BUY	278.14	Ordinary	7,880	7,880
27-Sep-2022	Vanguard Investments Australia Ltd.	BUY	284.64	Ordinary	3,546	3,546
28-Sep-2022	Vanguard Investments Australia Ltd.	BUY	282.35	Ordinary	1,092	1,092
29-Sep-2022	Vanguard Investments Australia Ltd.	BUY	286.74	Ordinary	3,555	3,555
30-Sep-2022	Vanguard Investments Australia Ltd.	SELL	285.02	Ordinary	(11,060)	(11,060)
30-Sep-2022	Vanguard Investments Australia Ltd.	SELL	285.02	Ordinary	(1,053)	(1,053)
3-Oct-2022	Vanguard Investments Australia Ltd.	BUY	283.26	Ordinary	3,492	3,492
3-Oct-2022	Vanguard Investments Australia Ltd.	BUY	283.26	Ordinary	7,760	7,760
5-Oct-2022	Vanguard Investments Australia Ltd.	BUY	290.50	Ordinary	2,328	2,328
11-Oct-2022	Vanguard Investments Australia Ltd.	BUY	282.86	Ordinary	2,709	2,709
11-Oct-2022	Vanguard Investments Australia Ltd.	BUY	282.86	Ordinary	534	534
13-Oct-2022	Vanguard Investments Australia Ltd.	BUY	276.43	Ordinary	424	424
13-Oct-2022	Vanguard Investments Australia Ltd.	BUY	276.43	Ordinary	1,089	1,089
17-Oct-2022	Vanguard Investments Australia Ltd.	BUY	276.83	Ordinary	1,935	1,935
18-Oct-2022	Vanguard Investments Australia Ltd.	BUY	275.70	Ordinary	7,740	7,740
19-Oct-2022	Vanguard Investments Australia Ltd.	SELL	276.96	Ordinary	(9,303)	(9,303)
19-Oct-2022	Vanguard Investments Australia Ltd.	BUY	274.36	Ordinary	115	115
19-Oct-2022	Vanguard Investments Australia Ltd.	BUY	276.96	Ordinary	294	294
24-Oct-2022	Vanguard Investments Australia Ltd.	BUY	273.05	Ordinary	586	586
25-Oct-2022	Vanguard Investments Australia Ltd.	BUY	276.00	Ordinary	8,514	8,514
25-Oct-2022	Vanguard Investments Australia Ltd.	BUY	276.00	Ordinary	534	534
26-Oct-2022	Vanguard Investments Australia Ltd.	BUY	275.31	Ordinary	2,322	2,322
28-Oct-2022	Vanguard Investments Australia Ltd.	BUY	273.97	Ordinary	62	62
31-Oct-2022	Vanguard Investments Australia Ltd.	BUY	280.48	Ordinary	5,805	5,805
2-Nov-2022	Vanguard Investments Australia Ltd.	BUY	282.71	Ordinary	2,709	2,709
7-Nov-2022	Vanguard Investments Australia Ltd.	BUY	277.16	Ordinary	330	330
7-Nov-2022	Vanguard Investments Australia Ltd.	BUY	277.16	Ordinary	1,092	1,092

This is Annexure A of 6 pages referred to in Form 603, Notice of initial substantial holder.

Signature: _____



Name: Shawn Acker

Capacity: Compliance Manager

Date: 14 November 2022