

Form 603Corporations Act 2001
Section 671B**Notice of initial substantial holder**

To Company Name/Scheme Whitehaven Coal Limited

ACN/ARSN 124 425 396

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 13 January 2023

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	44,590,478	44,590,478	5.014%

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 – 44,590,478

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 – 1,108,411
Vanguard Group	BNY Mellon	Various funds and other accounts of Vanguard Group	Ordinary – 2,966,662
Vanguard Group	JP Morgan Chase Bank, N.A.	Various funds and other accounts of Vanguard Group	Ordinary – 33,561,755
Vanguard Group	State Street Bank and Trust Company	Various funds and other accounts of Vanguard Group	Ordinary – 6,953,650

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 18 January 2023

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 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.

To Company Whitehaven Coal Limited
 ACN/ARSN 124 425 396

Substantial Holder Name Vanguard Group
 ACN/ARSN N/A

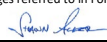
Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
16-Sep-22	The Vanguard Group, Inc.	SELL	8.63	Ordinary	(16,189)	(16,189)
16-Sep-22	The Vanguard Group, Inc.	BUY	8.63	Ordinary	798	798
16-Sep-22	The Vanguard Group, Inc.	SELL	8.63	Ordinary	(13,281)	(13,281)
16-Sep-22	The Vanguard Group, Inc.	BUY	8.63	Ordinary	6,082	6,082
16-Sep-22	The Vanguard Group, Inc.	BUY	8.63	Ordinary	7,740	7,740
16-Sep-22	The Vanguard Group, Inc.	SELL	8.63	Ordinary	(338)	(338)
16-Sep-22	The Vanguard Group, Inc.	SELL	8.63	Ordinary	(6,754)	(6,754)
16-Sep-22	The Vanguard Group, Inc.	SELL	8.63	Ordinary	(477)	(477)
16-Sep-22	The Vanguard Group, Inc.	SELL	8.63	Ordinary	(109,766)	(109,766)
16-Sep-22	The Vanguard Group, Inc.	SELL	8.63	Ordinary	(358,381)	(358,381)
16-Sep-22	The Vanguard Group, Inc.	SELL	8.63	Ordinary	(69,627)	(69,627)
16-Sep-22	The Vanguard Group, Inc.	SELL	8.63	Ordinary	(474,935)	(474,935)
16-Sep-22	The Vanguard Group, Inc.	SELL	8.63	Ordinary	(268,258)	(268,258)
16-Sep-22	The Vanguard Group, Inc.	BUY	8.62	Ordinary	984	984
16-Sep-22	The Vanguard Group, Inc.	SELL	8.63	Ordinary	(23,551)	(23,551)
19-Sep-22	The Vanguard Group, Inc.	SELL	8.43	Ordinary	(35,090)	(35,090)
19-Sep-22	The Vanguard Group, Inc.	BUY	8.41	Ordinary	4,335	4,335
19-Sep-22	The Vanguard Group, Inc.	BUY	8.41	Ordinary	920	920
21-Sep-22	The Vanguard Group, Inc.	BUY	8.93	Ordinary	5,922	5,922
22-Sep-22	The Vanguard Group, Inc.	BUY	8.92	Ordinary	1,380	1,380
23-Sep-22	The Vanguard Group, Inc.	BUY	9.20	Ordinary	3,063	3,063
23-Sep-22	The Vanguard Group, Inc.	BUY	9.06	Ordinary	51,910	51,910
26-Sep-22	The Vanguard Group, Inc.	BUY	7.91	Ordinary	1,404	1,404
26-Sep-22	The Vanguard Group, Inc.	BUY	7.91	Ordinary	1,185	1,185
26-Sep-22	The Vanguard Group, Inc.	BUY	8.40	Ordinary	74,320	74,320
26-Sep-22	The Vanguard Group, Inc.	BUY	8.40	Ordinary	74,320	74,320
26-Sep-22	The Vanguard Group, Inc.	SELL	8.40	Ordinary	(74,320)	(74,320)
26-Sep-22	The Vanguard Group, Inc.	BUY	7.97	Ordinary	7,896	7,896
26-Sep-22	The Vanguard Group, Inc.	BUY	7.97	Ordinary	4,335	4,335
27-Sep-22	The Vanguard Group, Inc.	BUY	8.45	Ordinary	264	264
27-Sep-22	The Vanguard Group, Inc.	BUY	8.36	Ordinary	2,816	2,816
27-Sep-22	The Vanguard Group, Inc.	BUY	8.36	Ordinary	867	867
29-Sep-22	The Vanguard Group, Inc.	BUY	9.18	Ordinary	3,106	3,106
29-Sep-22	The Vanguard Group, Inc.	BUY	9.25	Ordinary	3,008	3,008
29-Sep-22	The Vanguard Group, Inc.	BUY	9.25	Ordinary	1,840	1,840
30-Sep-22	The Vanguard Group, Inc.	BUY	9.07	Ordinary	1,840	1,840
3-Oct-22	The Vanguard Group, Inc.	BUY	9.36	Ordinary	2,812	2,812
3-Oct-22	The Vanguard Group, Inc.	BUY	9.36	Ordinary	3,945	3,945
3-Oct-22	The Vanguard Group, Inc.	BUY	9.14	Ordinary	819	819
4-Oct-22	The Vanguard Group, Inc.	BUY	9.95	Ordinary	2,812	2,812
4-Oct-22	The Vanguard Group, Inc.	BUY	9.95	Ordinary	2,812	2,812
4-Oct-22	The Vanguard Group, Inc.	BUY	9.95	Ordinary	4,218	4,218
4-Oct-22	The Vanguard Group, Inc.	BUY	9.95	Ordinary	3,516	3,516
4-Oct-22	The Vanguard Group, Inc.	BUY	9.95	Ordinary	920	920
5-Oct-22	The Vanguard Group, Inc.	BUY	9.76	Ordinary	385	385
6-Oct-22	The Vanguard Group, Inc.	BUY	10.46	Ordinary	1,405	1,405
6-Oct-22	The Vanguard Group, Inc.	BUY	10.25	Ordinary	1,380	1,380
7-Oct-22	The Vanguard Group, Inc.	BUY	10.96	Ordinary	381	381
10-Oct-22	The Vanguard Group, Inc.	BUY	10.54	Ordinary	920	920
10-Oct-22	The Vanguard Group, Inc.	BUY	10.54	Ordinary	1,840	1,840
11-Oct-22	The Vanguard Group, Inc.	SELL	10.37	Ordinary	(1,149)	(1,149)
11-Oct-22	The Vanguard Group, Inc.	BUY	10.35	Ordinary	2,913	2,913
11-Oct-22	The Vanguard Group, Inc.	BUY	10.35	Ordinary	1,380	1,380
11-Oct-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(1,586)	(1,586)
12-Oct-22	The Vanguard Group, Inc.	BUY	10.68	Ordinary	253	253
12-Oct-22	The Vanguard Group, Inc.	BUY	10.65	Ordinary	7,768	7,768
12-Oct-22	The Vanguard Group, Inc.	BUY	10.61	Ordinary	52,538	52,538
13-Oct-22	The Vanguard Group, Inc.	BUY	10.89	Ordinary	11,935	11,935
14-Oct-22	The Vanguard Group, Inc.	BUY	10.87	Ordinary	34,516	34,516
17-Oct-22	The Vanguard Group, Inc.	BUY	10.96	Ordinary	2,630	2,630
17-Oct-22	The Vanguard Group, Inc.	BUY	10.96	Ordinary	1,380	1,380
18-Oct-22	The Vanguard Group, Inc.	BUY	10.41	Ordinary	10,683	10,683
18-Oct-22	The Vanguard Group, Inc.	BUY	10.32	Ordinary	1,380	1,380
19-Oct-22	The Vanguard Group, Inc.	BUY	10.28	Ordinary	36,577	36,577
20-Oct-22	The Vanguard Group, Inc.	BUY	10.02	Ordinary	7,624	7,624
20-Oct-22	The Vanguard Group, Inc.	BUY	10.02	Ordinary	920	920
20-Oct-22	The Vanguard Group, Inc.	BUY	10.03	Ordinary	457	457
21-Oct-22	The Vanguard Group, Inc.	BUY	10.78	Ordinary	3,395	3,395
21-Oct-22	The Vanguard Group, Inc.	BUY	10.78	Ordinary	2,716	2,716
21-Oct-22	The Vanguard Group, Inc.	BUY	10.78	Ordinary	5,718	5,718
21-Oct-22	The Vanguard Group, Inc.	BUY	10.78	Ordinary	6,671	6,671
21-Oct-22	The Vanguard Group, Inc.	BUY	10.78	Ordinary	5,915	5,915
21-Oct-22	The Vanguard Group, Inc.	BUY	10.78	Ordinary	920	920
25-Oct-22	The Vanguard Group, Inc.	SELL	10.36	Ordinary	(832)	(832)
25-Oct-22	The Vanguard Group, Inc.	BUY	10.51	Ordinary	2,648	2,648
25-Oct-22	The Vanguard Group, Inc.	BUY	10.51	Ordinary	1,380	1,380
26-Oct-22	The Vanguard Group, Inc.	BUY	9.67	Ordinary	7,315	7,315
26-Oct-22	The Vanguard Group, Inc.	BUY	9.67	Ordinary	8,577	8,577
26-Oct-22	The Vanguard Group, Inc.	BUY	9.67	Ordinary	5,100	5,100
26-Oct-22	The Vanguard Group, Inc.	BUY	9.67	Ordinary	2,760	2,760
26-Oct-22	The Vanguard Group, Inc.	BUY	9.67	Ordinary	920	920
28-Oct-22	The Vanguard Group, Inc.	BUY	9.46	Ordinary	5,742	5,742
1-Nov-22	The Vanguard Group, Inc.	BUY	9.15	Ordinary	764	764
1-Nov-22	The Vanguard Group, Inc.	BUY	9.25	Ordinary	12,597	12,597
1-Nov-22	The Vanguard Group, Inc.	BUY	9.25	Ordinary	920	920
1-Nov-22	The Vanguard Group, Inc.	BUY	9.25	Ordinary	3,220	3,220
3-Nov-22	The Vanguard Group, Inc.	BUY	9.40	Ordinary	7,650	7,650
3-Nov-22	The Vanguard Group, Inc.	BUY	9.40	Ordinary	920	920
4-Nov-22	The Vanguard Group, Inc.	BUY	9.97	Ordinary	257	257
4-Nov-22	The Vanguard Group, Inc.	BUY	10.33	Ordinary	5,976	5,976
4-Nov-22	The Vanguard Group, Inc.	BUY	10.33	Ordinary	6,783	6,783
4-Nov-22	The Vanguard Group, Inc.	BUY	10.33	Ordinary	5,814	5,814
4-Nov-22	The Vanguard Group, Inc.	BUY	10.33	Ordinary	1,380	1,380
7-Nov-22	The Vanguard Group, Inc.	BUY	9.96	Ordinary	1,143	1,143
8-Nov-22	The Vanguard Group, Inc.	BUY	9.41	Ordinary	12,313	12,313

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities affected	Person's votes affected
9-Nov-22	The Vanguard Group, Inc.	BUY	8.61	Ordinary	764	764
9-Nov-22	The Vanguard Group, Inc.	BUY	8.61	Ordinary	31,029	31,029
10-Nov-22	The Vanguard Group, Inc.	BUY	8.67	Ordinary	4,840	4,840
10-Nov-22	The Vanguard Group, Inc.	BUY	8.67	Ordinary	3,872	3,872
10-Nov-22	The Vanguard Group, Inc.	BUY	8.67	Ordinary	5,808	5,808
10-Nov-22	The Vanguard Group, Inc.	BUY	8.67	Ordinary	7,395	7,395
11-Nov-22	The Vanguard Group, Inc.	BUY	8.04	Ordinary	3,629	3,629
11-Nov-22	The Vanguard Group, Inc.	BUY	8.15	Ordinary	1,380	1,380
14-Nov-22	The Vanguard Group, Inc.	BUY	8.26	Ordinary	920	920
15-Nov-22	The Vanguard Group, Inc.	BUY	8.27	Ordinary	41,101	41,101
15-Nov-22	The Vanguard Group, Inc.	BUY	8.23	Ordinary	1,530	1,530
15-Nov-22	The Vanguard Group, Inc.	BUY	8.23	Ordinary	920	920
15-Nov-22	The Vanguard Group, Inc.	BUY	8.27	Ordinary	8,954	8,954
16-Nov-22	The Vanguard Group, Inc.	SELL	8.71	Ordinary	(379)	(379)
16-Nov-22	The Vanguard Group, Inc.	BUY	8.71	Ordinary	28,792	28,792
16-Nov-22	The Vanguard Group, Inc.	SELL	8.73	Ordinary	(2,454)	(2,454)
18-Nov-22	The Vanguard Group, Inc.	BUY	8.19	Ordinary	770	770
18-Nov-22	The Vanguard Group, Inc.	BUY	8.18	Ordinary	920	920
18-Nov-22	The Vanguard Group, Inc.	BUY	8.18	Ordinary	2,300	2,300
22-Nov-22	The Vanguard Group, Inc.	BUY	9.11	Ordinary	283	283
22-Nov-22	The Vanguard Group, Inc.	BUY	9.19	Ordinary	4,755	4,755
22-Nov-22	The Vanguard Group, Inc.	BUY	9.19	Ordinary	1,380	1,380
25-Nov-22	The Vanguard Group, Inc.	SELL	9.07	Ordinary	(12,085)	(12,085)
25-Nov-22	The Vanguard Group, Inc.	SELL	9.07	Ordinary	(4,800)	(4,800)
30-Nov-22	The Vanguard Group, Inc.	SELL	10.04	Ordinary	(24,275)	(24,275)
30-Nov-22	The Vanguard Group, Inc.	BUY	10.04	Ordinary	774	774
1-Dec-22	The Vanguard Group, Inc.	SELL	9.90	Ordinary	(3,172)	(3,172)
2-Dec-22	The Vanguard Group, Inc.	BUY	9.74	Ordinary	297	297
2-Dec-22	The Vanguard Group, Inc.	SELL	9.60	Ordinary	(1,599)	(1,599)
5-Dec-22	The Vanguard Group, Inc.	BUY	9.55	Ordinary	194	194
6-Dec-22	The Vanguard Group, Inc.	BUY	9.79	Ordinary	1,380	1,380
6-Dec-22	The Vanguard Group, Inc.	BUY	9.79	Ordinary	2,300	2,300
8-Dec-22	The Vanguard Group, Inc.	BUY	9.65	Ordinary	920	920
8-Dec-22	The Vanguard Group, Inc.	BUY	9.65	Ordinary	920	920
13-Dec-22	The Vanguard Group, Inc.	BUY	9.59	Ordinary	780	780
13-Dec-22	The Vanguard Group, Inc.	BUY	9.59	Ordinary	266	266
13-Dec-22	The Vanguard Group, Inc.	SELL	9.59	Ordinary	(15,505)	(15,505)
13-Dec-22	The Vanguard Group, Inc.	BUY	9.67	Ordinary	1,840	1,840
13-Dec-22	The Vanguard Group, Inc.	SELL	9.58	Ordinary	(991)	(991)
16-Dec-22	The Vanguard Group, Inc.	BUY	10.28	Ordinary	9,466	9,466
16-Dec-22	The Vanguard Group, Inc.	BUY	10.28	Ordinary	56,493	56,493
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(7,360)	(7,360)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(490)	(490)
16-Dec-22	The Vanguard Group, Inc.	BUY	10.28	Ordinary	390	390
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(7,475)	(7,475)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(498)	(498)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(8,415)	(8,415)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(560)	(560)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(145)	(145)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(11)	(11)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(293)	(293)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(4,392)	(4,392)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(15)	(15)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(213)	(213)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(43,889)	(43,889)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(2,917)	(2,917)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(151,761)	(151,761)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(10,084)	(10,084)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(2,888)	(2,888)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(43,461)	(43,461)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(17,388)	(17,388)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(261,700)	(261,700)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(6,332)	(6,332)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(95,283)	(95,283)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(202)	(202)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(3,026)	(3,026)
19-Dec-22	The Vanguard Group, Inc.	BUY	10.61	Ordinary	1,380	1,380
20-Dec-22	The Vanguard Group, Inc.	BUY	10.41	Ordinary	920	920
20-Dec-22	The Vanguard Group, Inc.	BUY	10.41	Ordinary	1,380	1,380
21-Dec-22	The Vanguard Group, Inc.	BUY	10.78	Ordinary	740	740
21-Dec-22	The Vanguard Group, Inc.	SELL	10.60	Ordinary	(1,669)	(1,669)
23-Dec-22	The Vanguard Group, Inc.	BUY	10.52	Ordinary	185	185
23-Dec-22	The Vanguard Group, Inc.	BUY	10.55	Ordinary	1,380	1,380
28-Dec-22	The Vanguard Group, Inc.	SELL	9.76	Ordinary	(9,167)	(9,167)
28-Dec-22	The Vanguard Group, Inc.	BUY	9.71	Ordinary	11,064	11,064
28-Dec-22	The Vanguard Group, Inc.	BUY	9.71	Ordinary	2,300	2,300
29-Dec-22	The Vanguard Group, Inc.	BUY	9.28	Ordinary	1,370	1,370
29-Dec-22	The Vanguard Group, Inc.	BUY	9.35	Ordinary	5,532	5,532
3-Jan-23	The Vanguard Group, Inc.	SELL	8.83	Ordinary	(3,296)	(3,296)
4-Jan-23	The Vanguard Group, Inc.	BUY	9.17	Ordinary	3,044	3,044
4-Jan-23	The Vanguard Group, Inc.	SELL	8.72	Ordinary	(39,160)	(39,160)
4-Jan-23	The Vanguard Group, Inc.	BUY	9.12	Ordinary	1,526	1,526
5-Jan-23	The Vanguard Group, Inc.	BUY	8.98	Ordinary	4,773	4,773
5-Jan-23	The Vanguard Group, Inc.	BUY	9.00	Ordinary	920	920
5-Jan-23	The Vanguard Group, Inc.	BUY	9.00	Ordinary	920	920
6-Jan-23	The Vanguard Group, Inc.	SELL	9.13	Ordinary	(9,994)	(9,994)
6-Jan-23	The Vanguard Group, Inc.	BUY	9.25	Ordinary	5,538	5,538
6-Jan-23	The Vanguard Group, Inc.	BUY	9.25	Ordinary	2,286	2,286
6-Jan-23	The Vanguard Group, Inc.	BUY	9.25	Ordinary	1,380	1,380
9-Jan-23	The Vanguard Group, Inc.	BUY	9.18	Ordinary	1,563	1,563
10-Jan-23	The Vanguard Group, Inc.	BUY	9.07	Ordinary	742	742
11-Jan-23	The Vanguard Group, Inc.	BUY	8.84	Ordinary	1,116	1,116
12-Jan-23	The Vanguard Group, Inc.	SELL	8.52	Ordinary	(40,258)	(40,258)
12-Jan-23	The Vanguard Group, Inc.	BUY	8.83	Ordinary	920	920
12-Jan-23	The Vanguard Group, Inc.	BUY	8.83	Ordinary	920	920
16-Sep-22	Vanguard Investments Australia Ltd.	BUY	8.63	Ordinary	261,251	261,251
16-Sep-22	Vanguard Investments Australia Ltd.	SELL	8.63	Ordinary	(158,172)	(158,172)
19-Sep-22	Vanguard Investments Australia Ltd.	BUY	8.31	Ordinary	4,180	4,180
20-Sep-22	Vanguard Investments Australia Ltd.	BUY	8.63	Ordinary	4,185	4,185
20-Sep-22	Vanguard Investments Australia Ltd.	BUY	8.63	Ordinary	3,411	3,411
23-Sep-22	Vanguard Investments Australia Ltd.	BUY	9.20	Ordinary	6,688	6,688
23-Sep-22	Vanguard Investments Australia Ltd.	BUY	9.20	Ordinary	16,720	16,720

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-Sep-22	Vanguard Investments Australia Ltd.	BUY	9.20	Ordinary	9,051	9,051
26-Sep-22	Vanguard Investments Australia Ltd.	BUY	7.91	Ordinary	6,822	6,822
27-Sep-22	Vanguard Investments Australia Ltd.	BUY	8.45	Ordinary	7,506	7,506
27-Sep-22	Vanguard Investments Australia Ltd.	BUY	8.45	Ordinary	3,411	3,411
28-Sep-22	Vanguard Investments Australia Ltd.	BUY	8.78	Ordinary	4,548	4,548
29-Sep-22	Vanguard Investments Australia Ltd.	BUY	9.18	Ordinary	7,506	7,506
29-Sep-22	Vanguard Investments Australia Ltd.	BUY	9.18	Ordinary	4,548	4,548
30-Sep-22	Vanguard Investments Australia Ltd.	SELL	9.01	Ordinary	(23,268)	(23,268)
30-Sep-22	Vanguard Investments Australia Ltd.	SELL	9.01	Ordinary	(18,738)	(18,738)
3-Oct-22	Vanguard Investments Australia Ltd.	BUY	9.14	Ordinary	7,362	7,362
3-Oct-22	Vanguard Investments Australia Ltd.	BUY	9.14	Ordinary	16,360	16,360
4-Oct-22	Vanguard Investments Australia Ltd.	BUY	9.74	Ordinary	3,339	3,339
5-Oct-22	Vanguard Investments Australia Ltd.	BUY	9.76	Ordinary	4,908	4,908
7-Oct-22	Vanguard Investments Australia Ltd.	BUY	10.96	Ordinary	2,226	2,226
11-Oct-22	Vanguard Investments Australia Ltd.	BUY	10.37	Ordinary	5,719	5,719
11-Oct-22	Vanguard Investments Australia Ltd.	BUY	10.37	Ordinary	4,452	4,452
13-Oct-22	Vanguard Investments Australia Ltd.	BUY	10.60	Ordinary	4,452	4,452
17-Oct-22	Vanguard Investments Australia Ltd.	BUY	10.80	Ordinary	4,100	4,100
18-Oct-22	Vanguard Investments Australia Ltd.	BUY	10.41	Ordinary	16,420	16,420
18-Oct-22	Vanguard Investments Australia Ltd.	BUY	10.41	Ordinary	9,054	9,054
18-Oct-22	Vanguard Investments Australia Ltd.	BUY	10.41	Ordinary	2,226	2,226
19-Oct-22	Vanguard Investments Australia Ltd.	BUY	10.52	Ordinary	2,226	2,226
24-Oct-22	Vanguard Investments Australia Ltd.	BUY	10.85	Ordinary	6,446	6,446
25-Oct-22	Vanguard Investments Australia Ltd.	BUY	10.36	Ordinary	18,150	18,150
25-Oct-22	Vanguard Investments Australia Ltd.	BUY	10.36	Ordinary	9,063	9,063
26-Oct-22	Vanguard Investments Australia Ltd.	BUY	9.52	Ordinary	4,944	4,944
26-Oct-22	Vanguard Investments Australia Ltd.	BUY	9.52	Ordinary	5,565	5,565
31-Oct-22	Vanguard Investments Australia Ltd.	BUY	9.03	Ordinary	12,465	12,465
2-Nov-22	Vanguard Investments Australia Ltd.	BUY	9.53	Ordinary	5,831	5,831
3-Nov-22	Vanguard Investments Australia Ltd.	BUY	9.41	Ordinary	15,110	15,110
3-Nov-22	Vanguard Investments Australia Ltd.	BUY	9.41	Ordinary	2,226	2,226
3-Nov-22	Vanguard Investments Australia Ltd.	BUY	9.41	Ordinary	2,226	2,226
9-Nov-22	Vanguard Investments Australia Ltd.	BUY	8.61	Ordinary	12,128	12,128
9-Nov-22	Vanguard Investments Australia Ltd.	BUY	8.61	Ordinary	3,348	3,348
11-Nov-22	Vanguard Investments Australia Ltd.	BUY	8.04	Ordinary	2,232	2,232
14-Nov-22	Vanguard Investments Australia Ltd.	BUY	8.30	Ordinary	16,880	16,880
15-Nov-22	Vanguard Investments Australia Ltd.	BUY	8.23	Ordinary	2,236	2,236
16-Nov-22	Vanguard Investments Australia Ltd.	BUY	8.71	Ordinary	3,030	3,030
16-Nov-22	Vanguard Investments Australia Ltd.	BUY	8.71	Ordinary	12,120	12,120
16-Nov-22	Vanguard Investments Australia Ltd.	BUY	8.71	Ordinary	2,236	2,236
17-Nov-22	Vanguard Investments Australia Ltd.	BUY	8.16	Ordinary	2,240	2,240
21-Nov-22	Vanguard Investments Australia Ltd.	SELL	8.45	Ordinary	(25,650)	(25,650)
21-Nov-22	Vanguard Investments Australia Ltd.	BUY	8.45	Ordinary	2,240	2,240
21-Nov-22	Vanguard Investments Australia Ltd.	BUY	8.45	Ordinary	2,240	2,240
22-Nov-22	Vanguard Investments Australia Ltd.	BUY	9.11	Ordinary	2,240	2,240
24-Nov-22	Vanguard Investments Australia Ltd.	BUY	8.98	Ordinary	12,675	12,675
28-Nov-22	Vanguard Investments Australia Ltd.	BUY	9.43	Ordinary	3,360	3,360
29-Nov-22	Vanguard Investments Australia Ltd.	BUY	9.26	Ordinary	12,645	12,645
30-Nov-22	Vanguard Investments Australia Ltd.	SELL	10.04	Ordinary	(38,819)	(38,819)
1-Dec-22	Vanguard Investments Australia Ltd.	BUY	9.89	Ordinary	11,816	11,816
2-Dec-22	Vanguard Investments Australia Ltd.	BUY	9.74	Ordinary	6,745	6,745
2-Dec-22	Vanguard Investments Australia Ltd.	BUY	9.74	Ordinary	2,240	2,240
5-Dec-22	Vanguard Investments Australia Ltd.	BUY	9.55	Ordinary	21,100	21,100
7-Dec-22	Vanguard Investments Australia Ltd.	BUY	9.70	Ordinary	2,971	2,971
7-Dec-22	Vanguard Investments Australia Ltd.	BUY	9.70	Ordinary	2,240	2,240
7-Dec-22	Vanguard Investments Australia Ltd.	BUY	9.70	Ordinary	3,360	3,360
8-Dec-22	Vanguard Investments Australia Ltd.	BUY	9.57	Ordinary	4,480	4,480
12-Dec-22	Vanguard Investments Australia Ltd.	BUY	9.50	Ordinary	8,430	8,430
13-Dec-22	Vanguard Investments Australia Ltd.	BUY	9.59	Ordinary	12,645	12,645
13-Dec-22	Vanguard Investments Australia Ltd.	BUY	9.59	Ordinary	8,430	8,430
13-Dec-22	Vanguard Investments Australia Ltd.	BUY	9.59	Ordinary	8,916	8,916
14-Dec-22	Vanguard Investments Australia Ltd.	SELL	9.82	Ordinary	(24,476)	(24,476)
14-Dec-22	Vanguard Investments Australia Ltd.	BUY	9.82	Ordinary	2,240	2,240
16-Dec-22	Vanguard Investments Australia Ltd.	SELL	10.28	Ordinary	(4,754)	(4,754)
16-Dec-22	Vanguard Investments Australia Ltd.	SELL	10.28	Ordinary	(71,538)	(71,538)
16-Dec-22	Vanguard Investments Australia Ltd.	BUY	10.28	Ordinary	3,360	3,360
16-Dec-22	Vanguard Investments Australia Ltd.	SELL	10.28	Ordinary	(151,422)	(151,422)
16-Dec-22	Vanguard Investments Australia Ltd.	SELL	10.28	Ordinary	(10,061)	(10,061)
20-Dec-22	Vanguard Investments Australia Ltd.	BUY	10.32	Ordinary	8,150	8,150
20-Dec-22	Vanguard Investments Australia Ltd.	BUY	10.32	Ordinary	2,104	2,104
21-Dec-22	Vanguard Investments Australia Ltd.	SELL	10.78	Ordinary	(1,052)	(1,052)
22-Dec-22	Vanguard Investments Australia Ltd.	SELL	10.53	Ordinary	(14,616)	(14,616)
22-Dec-22	Vanguard Investments Australia Ltd.	BUY	10.53	Ordinary	8,901	8,901
22-Dec-22	Vanguard Investments Australia Ltd.	BUY	10.53	Ordinary	2,104	2,104
23-Dec-22	Vanguard Investments Australia Ltd.	SELL	10.52	Ordinary	(9,720)	(9,720)
23-Dec-22	Vanguard Investments Australia Ltd.	BUY	10.52	Ordinary	2,104	2,104
23-Dec-22	Vanguard Investments Australia Ltd.	BUY	10.52	Ordinary	2,104	2,104
28-Dec-22	Vanguard Investments Australia Ltd.	SELL	9.76	Ordinary	(28,420)	(28,420)
28-Dec-22	Vanguard Investments Australia Ltd.	BUY	9.76	Ordinary	1,052	1,052
29-Dec-22	Vanguard Investments Australia Ltd.	BUY	9.28	Ordinary	2,106	2,106
30-Dec-22	Vanguard Investments Australia Ltd.	SELL	9.42	Ordinary	(30,196)	(30,196)
30-Dec-22	Vanguard Investments Australia Ltd.	SELL	9.42	Ordinary	(20,715)	(20,715)
3-Jan-23	Vanguard Investments Australia Ltd.	BUY	8.83	Ordinary	20,225	20,225
3-Jan-23	Vanguard Investments Australia Ltd.	BUY	8.83	Ordinary	3,120	3,120
3-Jan-23	Vanguard Investments Australia Ltd.	BUY	8.83	Ordinary	2,080	2,080
5-Jan-23	Vanguard Investments Australia Ltd.	BUY	8.98	Ordinary	3,120	3,120
13-Jan-23	Vanguard Investments Australia Ltd.	SELL	8.76	Ordinary	(12,330)	(12,330)

This is Annexure A of 3 pages referred to in Form 603, Notice of initial substantial holder.

Signature:



Name: Shawn Acker

Capacity: Compliance Manager

Date: 18 January 2023