

**Form 603**  
Corporations 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 7 March 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)
<b>Ordinary</b>	<b>44,467,711</b>	<b>44,467,711</b>	<b>5.001%</b>

**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
<b>Vanguard Group</b>	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.	<b>Ordinary – 44,467,711</b>

**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
<b>Vanguard Group</b>	<b>Brown Brothers Harriman</b>	Various funds and other accounts of Vanguard Group	<b>Ordinary – 1,188,799</b>
<b>Vanguard Group</b>	<b>BNY Mellon</b>	Various funds and other accounts of Vanguard Group	<b>Ordinary – 3,003,553</b>
<b>Vanguard Group</b>	<b>JP Morgan Chase Bank, N.A.</b>	Various funds and other accounts of Vanguard Group	<b>Ordinary – 33,135,874</b>
<b>Vanguard Group</b>	<b>State Street Bank and Trust Company</b>	Various funds and other accounts of Vanguard Group	<b>Ordinary – 7,139,485</b>

**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
<b>See Annexure A</b>			

**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 10 March 2023

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
8-Nov-22	The Vanguard Group, Inc.	BUY	9.41	Ordinary	12,313	12,313
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.	BUY	10.04	Ordinary	774	774
30-Nov-22	The Vanguard Group, Inc.	SELL	10.04	Ordinary	(24,275)	(24,275)
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.	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	(4,392)	(4,392)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(293)	(293)
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.	BUY	10.28	Ordinary	56,493	56,493
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(490)	(490)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(7,360)	(7,360)
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.	BUY	10.28	Ordinary	9,466	9,466
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	(43,461)	(43,461)
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	(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	(3,026)	(3,026)
16-Dec-22	The Vanguard Group, Inc.	SELL	10.28	Ordinary	(202)	(202)
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

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
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
13-Jan-23	The Vanguard Group, Inc.	BUY	8.83	Ordinary	920	920
17-Jan-23	The Vanguard Group, Inc.	BUY	8.78	Ordinary	4,600	4,600
18-Jan-23	The Vanguard Group, Inc.	SELL	8.99	Ordinary	(291)	(291)
18-Jan-23	The Vanguard Group, Inc.	BUY	8.86	Ordinary	14,686	14,686
19-Jan-23	The Vanguard Group, Inc.	BUY	8.93	Ordinary	2,738	2,738
19-Jan-23	The Vanguard Group, Inc.	BUY	8.93	Ordinary	746	746
20-Jan-23	The Vanguard Group, Inc.	BUY	9.48	Ordinary	10,600	10,600
20-Jan-23	The Vanguard Group, Inc.	BUY	9.48	Ordinary	4,650	4,650
20-Jan-23	The Vanguard Group, Inc.	SELL	9.48	Ordinary	(39,673)	(39,673)
20-Jan-23	The Vanguard Group, Inc.	SELL	9.39	Ordinary	(47,608)	(47,608)
20-Jan-23	The Vanguard Group, Inc.	BUY	9.48	Ordinary	2,255	2,255
24-Jan-23	The Vanguard Group, Inc.	BUY	9.17	Ordinary	1,122	1,122
24-Jan-23	The Vanguard Group, Inc.	BUY	9.17	Ordinary	748	748
24-Jan-23	The Vanguard Group, Inc.	BUY	9.16	Ordinary	1,380	1,380
25-Jan-23	The Vanguard Group, Inc.	BUY	9.04	Ordinary	2,760	2,760
27-Jan-23	The Vanguard Group, Inc.	SELL	8.44	Ordinary	(19,166)	(19,166)
27-Jan-23	The Vanguard Group, Inc.	BUY	8.44	Ordinary	1,440	1,440
30-Jan-23	The Vanguard Group, Inc.	BUY	8.53	Ordinary	5,167	5,167
1-Feb-23	The Vanguard Group, Inc.	BUY	8.27	Ordinary	6,678	6,678
2-Feb-23	The Vanguard Group, Inc.	BUY	8.17	Ordinary	10,070	10,070
2-Feb-23	The Vanguard Group, Inc.	SELL	8.14	Ordinary	(15,827)	(15,827)
3-Feb-23	The Vanguard Group, Inc.	BUY	8.22	Ordinary	342	342
3-Feb-23	The Vanguard Group, Inc.	BUY	8.22	Ordinary	1,300	1,300
3-Feb-23	The Vanguard Group, Inc.	BUY	8.22	Ordinary	16,258	16,258
3-Feb-23	The Vanguard Group, Inc.	BUY	8.22	Ordinary	748	748
3-Feb-23	The Vanguard Group, Inc.	SELL	8.21	Ordinary	(4,152)	(4,152)
3-Feb-23	The Vanguard Group, Inc.	SELL	8.21	Ordinary	(2,076)	(2,076)
3-Feb-23	The Vanguard Group, Inc.	SELL	8.21	Ordinary	(2,298)	(2,298)
3-Feb-23	The Vanguard Group, Inc.	SELL	8.21	Ordinary	(2,550)	(2,550)
6-Feb-23	The Vanguard Group, Inc.	BUY	8.46	Ordinary	7,410	7,410
7-Feb-23	The Vanguard Group, Inc.	BUY	8.62	Ordinary	55,324	55,324
7-Feb-23	The Vanguard Group, Inc.	BUY	8.62	Ordinary	5,928	5,928
7-Feb-23	The Vanguard Group, Inc.	BUY	8.62	Ordinary	5,369	5,369
7-Feb-23	The Vanguard Group, Inc.	BUY	8.62	Ordinary	5,454	5,454
9-Feb-23	The Vanguard Group, Inc.	BUY	8.06	Ordinary	5,532	5,532
10-Feb-23	The Vanguard Group, Inc.	BUY	7.74	Ordinary	18,237	18,237
13-Feb-23	The Vanguard Group, Inc.	BUY	7.98	Ordinary	920	920
13-Feb-23	The Vanguard Group, Inc.	BUY	7.98	Ordinary	1,380	1,380
14-Feb-23	The Vanguard Group, Inc.	BUY	7.94	Ordinary	25,300	25,300
14-Feb-23	The Vanguard Group, Inc.	BUY	7.94	Ordinary	1,657	1,657
15-Feb-23	The Vanguard Group, Inc.	BUY	8.20	Ordinary	5,532	5,532
15-Feb-23	The Vanguard Group, Inc.	BUY	8.20	Ordinary	920	920
17-Feb-23	The Vanguard Group, Inc.	SELL	7.55	Ordinary	(15,386)	(15,386)
17-Feb-23	The Vanguard Group, Inc.	BUY	7.57	Ordinary	1,840	1,840
17-Feb-23	The Vanguard Group, Inc.	BUY	7.57	Ordinary	920	920
20-Feb-23	The Vanguard Group, Inc.	BUY	7.50	Ordinary	650	650
21-Feb-23	The Vanguard Group, Inc.	BUY	7.40	Ordinary	6,548	6,548
21-Feb-23	The Vanguard Group, Inc.	BUY	7.36	Ordinary	5,532	5,532
21-Feb-23	The Vanguard Group, Inc.	BUY	7.36	Ordinary	1,840	1,840
22-Feb-23	The Vanguard Group, Inc.	BUY	7.47	Ordinary	1,380	1,380
22-Feb-23	The Vanguard Group, Inc.	BUY	7.51	Ordinary	4,441	4,441
23-Feb-23	The Vanguard Group, Inc.	BUY	7.36	Ordinary	746	746
23-Feb-23	The Vanguard Group, Inc.	BUY	7.36	Ordinary	2,325	2,325
27-Feb-23	The Vanguard Group, Inc.	SELL	7.23	Ordinary	(399)	(399)
27-Feb-23	The Vanguard Group, Inc.	BUY	7.31	Ordinary	5,532	5,532
27-Feb-23	The Vanguard Group, Inc.	BUY	7.31	Ordinary	2,325	2,325
28-Feb-23	The Vanguard Group, Inc.	BUY	7.23	Ordinary	29,947	29,947
1-Mar-23	The Vanguard Group, Inc.	SELL	7.15	Ordinary	(4,622)	(4,622)
1-Mar-23	The Vanguard Group, Inc.	BUY	7.26	Ordinary	4,610	4,610
1-Mar-23	The Vanguard Group, Inc.	BUY	7.26	Ordinary	9,220	9,220
1-Mar-23	The Vanguard Group, Inc.	BUY	7.26	Ordinary	6,200	6,200
1-Mar-23	The Vanguard Group, Inc.	BUY	7.26	Ordinary	1,380	1,380
2-Mar-23	The Vanguard Group, Inc.	BUY	7.52	Ordinary	1,300	1,300
2-Mar-23	The Vanguard Group, Inc.	BUY	7.52	Ordinary	14,950	14,950
2-Mar-23	The Vanguard Group, Inc.	BUY	7.52	Ordinary	5,222	5,222
2-Mar-23	The Vanguard Group, Inc.	BUY	7.52	Ordinary	7,150	7,150
3-Mar-23	The Vanguard Group, Inc.	BUY	7.49	Ordinary	410	410
3-Mar-23	The Vanguard Group, Inc.	BUY	7.53	Ordinary	1,840	1,840
6-Mar-23	The Vanguard Group, Inc.	BUY	7.33	Ordinary	650	650
7-Mar-23	The Vanguard Group, Inc.	BUY	7.31	Ordinary	6,375	6,375
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

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-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)
17-Jan-23	Vanguard Investments Australia Ltd.	BUY	8.74	Ordinary	8,709	8,709
17-Jan-23	Vanguard Investments Australia Ltd.	BUY	8.74	Ordinary	2,082	2,082
18-Jan-23	Vanguard Investments Australia Ltd.	BUY	8.99	Ordinary	2,082	2,082
20-Jan-23	Vanguard Investments Australia Ltd.	SELL	9.49	Ordinary	(209,824)	(209,824)
24-Jan-23	Vanguard Investments Australia Ltd.	SELL	9.17	Ordinary	(8,706)	(8,706)
24-Jan-23	Vanguard Investments Australia Ltd.	SELL	9.17	Ordinary	(20,314)	(20,314)
24-Jan-23	Vanguard Investments Australia Ltd.	SELL	9.17	Ordinary	(14,510)	(14,510)
30-Jan-23	Vanguard Investments Australia Ltd.	BUY	8.40	Ordinary	2,082	2,082
31-Jan-23	Vanguard Investments Australia Ltd.	BUY	8.40	Ordinary	9,021	9,021
1-Feb-23	Vanguard Investments Australia Ltd.	SELL	8.27	Ordinary	(17,577)	(17,577)
2-Feb-23	Vanguard Investments Australia Ltd.	BUY	8.17	Ordinary	3,123	3,123
3-Feb-23	Vanguard Investments Australia Ltd.	BUY	8.22	Ordinary	16,780	16,780
3-Feb-23	Vanguard Investments Australia Ltd.	SELL	8.22	Ordinary	(13,424)	(13,424)
3-Feb-23	Vanguard Investments Australia Ltd.	BUY	8.22	Ordinary	3,123	3,123
7-Feb-23	Vanguard Investments Australia Ltd.	BUY	8.62	Ordinary	2,082	2,082
9-Feb-23	Vanguard Investments Australia Ltd.	BUY	8.04	Ordinary	2,082	2,082
10-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.74	Ordinary	2,082	2,082
13-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.93	Ordinary	12,690	12,690
13-Feb-23	Vanguard Investments Australia Ltd.	SELL	7.93	Ordinary	(96,900)	(96,900)
13-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.93	Ordinary	5,804	5,804
13-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.93	Ordinary	5,205	5,205
15-Feb-23	Vanguard Investments Australia Ltd.	BUY	8.19	Ordinary	3,123	3,123
16-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.96	Ordinary	5,205	5,205
16-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.96	Ordinary	3,123	3,123
17-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.55	Ordinary	13,552	13,552
20-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.50	Ordinary	5,804	5,804
20-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.50	Ordinary	3,126	3,126
21-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.40	Ordinary	12,780	12,780
21-Feb-23	Vanguard Investments Australia Ltd.	SELL	7.40	Ordinary	(51,120)	(51,120)
22-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.51	Ordinary	8,540	8,540
22-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.51	Ordinary	3,132	3,132
23-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.36	Ordinary	5,818	5,818
23-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.36	Ordinary	4,180	4,180
27-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.23	Ordinary	5,806	5,806
27-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.23	Ordinary	3,138	3,138
28-Feb-23	Vanguard Investments Australia Ltd.	SELL	7.23	Ordinary	(73,150)	(73,150)
28-Feb-23	Vanguard Investments Australia Ltd.	BUY	7.23	Ordinary	3,138	3,138
1-Mar-23	Vanguard Investments Australia Ltd.	BUY	7.22	Ordinary	12,885	12,885
1-Mar-23	Vanguard Investments Australia Ltd.	SELL	7.22	Ordinary	(15,462)	(15,462)
2-Mar-23	Vanguard Investments Australia Ltd.	BUY	7.52	Ordinary	3,144	3,144
2-Mar-23	Vanguard Investments Australia Ltd.	BUY	7.52	Ordinary	3,144	3,144
3-Mar-23	Vanguard Investments Australia Ltd.	BUY	7.49	Ordinary	11,245	11,245
6-Mar-23	Vanguard Investments Australia Ltd.	BUY	7.33	Ordinary	2,098	2,098
7-Mar-23	Vanguard Investments Australia Ltd.	BUY	7.31	Ordinary	5,586	5,586
7-Mar-23	Vanguard Investments Australia Ltd.	BUY	7.31	Ordinary	3,150	3,150
7-Mar-23	Vanguard Investments Australia Ltd.	BUY	7.31	Ordinary	2,100	2,100

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: 10 March 2023