

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

To Company Name/Scheme Qube Holdings Limited

ACN/ARSN 149 723 053

**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 20 March 2020

**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>81,302,177</b>	<b>81,302,177</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 – 81,302,177</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 – 1,146,422</b>
<b>Vanguard Group</b>	<b>BNY Mellon</b>	Various funds and other accounts of Vanguard Group	<b>Ordinary – 3,906,797</b>
<b>Vanguard Group</b>	<b>Citibank</b>	Various funds and other accounts of Vanguard Group	<b>Ordinary – 56,707</b>
<b>Vanguard Group</b>	<b>JP Morgan Chase Bank, N.A.</b>	Various funds and other accounts of Vanguard Group	<b>Ordinary – 41,627,270</b>
<b>Vanguard Group</b>	<b>State Street Bank and Trust Company</b>	Various funds and other accounts of Vanguard Group	<b>Ordinary – 9,034,740</b>
<b>Vanguard Group</b>	<b>Various others</b>	Various funds and other accounts of Vanguard Group	<b>Ordinary – 25,530,241</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 24 March 2020

To Company  
ACN/ARSN

Qube Holdings Limited  
149 723 053

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 affected
27-Nov-2019	The Vanguard Group, Inc.	BUY	3.32	Ordinary	2,427	2,427
2-Dec-2019	The Vanguard Group, Inc.	BUY	3.33	Ordinary	28,672	28,672
2-Dec-2019	The Vanguard Group, Inc.	BUY	3.33	Ordinary	6,268	6,268
5-Dec-2019	The Vanguard Group, Inc.	BUY	3.20	Ordinary	4,701	4,701
9-Dec-2019	The Vanguard Group, Inc.	BUY	3.20	Ordinary	4,681	4,681
10-Dec-2019	The Vanguard Group, Inc.	BUY	3.20	Ordinary	1,567	1,567
11-Dec-2019	The Vanguard Group, Inc.	BUY	3.26	Ordinary	23,562	23,562
12-Dec-2019	The Vanguard Group, Inc.	BUY	3.22	Ordinary	6,268	6,268
13-Dec-2019	The Vanguard Group, Inc.	BUY	3.24	Ordinary	3,134	3,134
18-Dec-2019	The Vanguard Group, Inc.	BUY	3.33	Ordinary	4,701	4,701
20-Dec-2019	The Vanguard Group, Inc.	BUY	3.33	Ordinary	180,306	180,306
20-Dec-2019	The Vanguard Group, Inc.	BUY	3.33	Ordinary	33,694	33,694
20-Dec-2019	The Vanguard Group, Inc.	BUY	3.33	Ordinary	4,701	4,701
23-Dec-2019	The Vanguard Group, Inc.	BUY	3.33	Ordinary	28,672	28,672
23-Dec-2019	The Vanguard Group, Inc.	BUY	3.33	Ordinary	6,144	6,144
23-Dec-2019	The Vanguard Group, Inc.	BUY	3.33	Ordinary	6,268	6,268
24-Dec-2019	The Vanguard Group, Inc.	BUY	3.30	Ordinary	12,288	12,288
26-Dec-2019	The Vanguard Group, Inc.	BUY	3.30	Ordinary	30,720	30,720
31-Dec-2019	The Vanguard Group, Inc.	BUY	3.29	Ordinary	4,701	4,701
3-Jan-2020	The Vanguard Group, Inc.	BUY	3.37	Ordinary	86,481	86,481
3-Jan-2020	The Vanguard Group, Inc.	BUY	3.36	Ordinary	3,134	3,134
3-Jan-2020	The Vanguard Group, Inc.	BUY	3.36	Ordinary	3,134	3,134
7-Jan-2020	The Vanguard Group, Inc.	BUY	3.40	Ordinary	3,134	3,134
9-Jan-2020	The Vanguard Group, Inc.	BUY	3.40	Ordinary	36,864	36,864
9-Jan-2020	The Vanguard Group, Inc.	BUY	3.40	Ordinary	4,701	4,701
9-Jan-2020	The Vanguard Group, Inc.	BUY	3.39	Ordinary	48,260	48,260
9-Jan-2020	The Vanguard Group, Inc.	BUY	3.39	Ordinary	4,757	4,757
13-Jan-2020	The Vanguard Group, Inc.	BUY	3.53	Ordinary	2,414	2,414
15-Jan-2020	The Vanguard Group, Inc.	BUY	3.55	Ordinary	16,384	16,384
16-Jan-2020	The Vanguard Group, Inc.	BUY	3.60	Ordinary	18,432	18,432
16-Jan-2020	The Vanguard Group, Inc.	BUY	3.60	Ordinary	4,701	4,701
16-Jan-2020	The Vanguard Group, Inc.	BUY	3.60	Ordinary	3,134	3,134
16-Jan-2020	The Vanguard Group, Inc.	BUY	3.60	Ordinary	6,268	6,268
17-Jan-2020	The Vanguard Group, Inc.	BUY	3.58	Ordinary	16,384	16,384
17-Jan-2020	The Vanguard Group, Inc.	BUY	3.58	Ordinary	18,432	18,432
22-Jan-2020	The Vanguard Group, Inc.	BUY	3.60	Ordinary	12,288	12,288
22-Jan-2020	The Vanguard Group, Inc.	BUY	3.61	Ordinary	2,414	2,414
23-Jan-2020	The Vanguard Group, Inc.	BUY	3.52	Ordinary	10,240	10,240
23-Jan-2020	The Vanguard Group, Inc.	SELL	3.55	Ordinary	(101,782)	(101,782)
23-Jan-2020	The Vanguard Group, Inc.	BUY	3.52	Ordinary	6,268	6,268
24-Jan-2020	The Vanguard Group, Inc.	BUY	3.45	Ordinary	4,701	4,701
28-Jan-2020	The Vanguard Group, Inc.	BUY	3.55	Ordinary	1,567	1,567
29-Jan-2020	The Vanguard Group, Inc.	BUY	3.52	Ordinary	270,086	270,086
30-Jan-2020	The Vanguard Group, Inc.	BUY	3.46	Ordinary	1,567	1,567
31-Jan-2020	The Vanguard Group, Inc.	BUY	3.41	Ordinary	12,288	12,288
31-Jan-2020	The Vanguard Group, Inc.	BUY	3.41	Ordinary	12,288	12,288
31-Jan-2020	The Vanguard Group, Inc.	BUY	3.41	Ordinary	4,701	4,701
31-Jan-2020	The Vanguard Group, Inc.	BUY	3.44	Ordinary	4,921	4,921
3-Feb-2020	The Vanguard Group, Inc.	BUY	3.43	Ordinary	1,567	1,567
3-Feb-2020	The Vanguard Group, Inc.	BUY	3.43	Ordinary	7,242	7,242
5-Feb-2020	The Vanguard Group, Inc.	BUY	3.46	Ordinary	37,924	37,924
5-Feb-2020	The Vanguard Group, Inc.	BUY	3.46	Ordinary	13,972	13,972
6-Feb-2020	The Vanguard Group, Inc.	BUY	3.44	Ordinary	4,701	4,701
7-Feb-2020	The Vanguard Group, Inc.	BUY	3.45	Ordinary	10,429	10,429
10-Feb-2020	The Vanguard Group, Inc.	BUY	3.45	Ordinary	17,964	17,964
10-Feb-2020	The Vanguard Group, Inc.	BUY	3.43	Ordinary	2,414	2,414
11-Feb-2020	The Vanguard Group, Inc.	BUY	3.46	Ordinary	11,976	11,976
11-Feb-2020	The Vanguard Group, Inc.	BUY	3.46	Ordinary	4,701	4,701
11-Feb-2020	The Vanguard Group, Inc.	BUY	3.46	Ordinary	3,134	3,134
12-Feb-2020	The Vanguard Group, Inc.	BUY	3.50	Ordinary	6,268	6,268
13-Feb-2020	The Vanguard Group, Inc.	BUY	3.48	Ordinary	25,948	25,948
14-Feb-2020	The Vanguard Group, Inc.	BUY	3.51	Ordinary	11,976	11,976

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
14-Feb-2020	The Vanguard Group, Inc.	BUY	3.51	Ordinary	3,134	3,134
14-Feb-2020	The Vanguard Group, Inc.	BUY	3.51	Ordinary	7,835	7,835
18-Feb-2020	The Vanguard Group, Inc.	BUY	3.36	Ordinary	5,462	5,462
19-Feb-2020	The Vanguard Group, Inc.	BUY	3.39	Ordinary	9,980	9,980
20-Feb-2020	The Vanguard Group, Inc.	BUY	3.41	Ordinary	177,763	177,763
20-Feb-2020	The Vanguard Group, Inc.	BUY	3.40	Ordinary	3,048	3,048
20-Feb-2020	The Vanguard Group, Inc.	BUY	3.40	Ordinary	16,933	16,933
20-Feb-2020	The Vanguard Group, Inc.	BUY	3.40	Ordinary	17,505	17,505
21-Feb-2020	The Vanguard Group, Inc.	BUY	3.37	Ordinary	15,968	15,968
24-Feb-2020	The Vanguard Group, Inc.	SELL	3.24	Ordinary	(6,825)	(6,825)
25-Feb-2020	The Vanguard Group, Inc.	SELL	3.14	Ordinary	(2,730)	(2,730)
25-Feb-2020	The Vanguard Group, Inc.	BUY	3.14	Ordinary	11,976	11,976
25-Feb-2020	The Vanguard Group, Inc.	BUY	3.14	Ordinary	4,572	4,572
26-Feb-2020	The Vanguard Group, Inc.	BUY	3.11	Ordinary	184,406	184,406
26-Feb-2020	The Vanguard Group, Inc.	BUY	3.08	Ordinary	6,005	6,005
27-Feb-2020	The Vanguard Group, Inc.	BUY	2.95	Ordinary	1,524	1,524
28-Feb-2020	The Vanguard Group, Inc.	BUY	2.92	Ordinary	198,179	198,179
2-Mar-2020	The Vanguard Group, Inc.	SELL	2.98	Ordinary	(15,968)	(15,968)
4-Mar-2020	The Vanguard Group, Inc.	BUY	2.80	Ordinary	19,108	19,108
6-Mar-2020	The Vanguard Group, Inc.	SELL	2.73	Ordinary	(11,976)	(11,976)
6-Mar-2020	The Vanguard Group, Inc.	SELL	2.77	Ordinary	(33,184)	(33,184)
10-Mar-2020	The Vanguard Group, Inc.	SELL	2.67	Ordinary	(9,980)	(9,980)
10-Mar-2020	The Vanguard Group, Inc.	BUY	2.67	Ordinary	7,620	7,620
11-Mar-2020	The Vanguard Group, Inc.	SELL	2.42	Ordinary	(5,988)	(5,988)
11-Mar-2020	The Vanguard Group, Inc.	BUY	2.42	Ordinary	4,572	4,572
11-Mar-2020	The Vanguard Group, Inc.	SELL	2.52	Ordinary	(34,565)	(34,565)
12-Mar-2020	The Vanguard Group, Inc.	SELL	2.17	Ordinary	(21,956)	(21,956)
13-Mar-2020	The Vanguard Group, Inc.	BUY	2.10	Ordinary	253,605	253,605
13-Mar-2020	The Vanguard Group, Inc.	BUY	2.45	Ordinary	9,144	9,144
13-Mar-2020	The Vanguard Group, Inc.	SELL	2.17	Ordinary	(10,485)	(10,485)
16-Mar-2020	The Vanguard Group, Inc.	SELL	2.04	Ordinary	(4,095)	(4,095)
16-Mar-2020	The Vanguard Group, Inc.	BUY	2.04	Ordinary	4,572	4,572
16-Mar-2020	The Vanguard Group, Inc.	BUY	2.07	Ordinary	2,442	2,442
16-Mar-2020	The Vanguard Group, Inc.	BUY	2.07	Ordinary	2,190	2,190
17-Mar-2020	The Vanguard Group, Inc.	SELL	2.26	Ordinary	(5,460)	(5,460)
17-Mar-2020	The Vanguard Group, Inc.	BUY	2.10	Ordinary	275,486	275,486
17-Mar-2020	The Vanguard Group, Inc.	SELL	2.26	Ordinary	(15,968)	(15,968)
17-Mar-2020	The Vanguard Group, Inc.	SELL	2.26	Ordinary	(19,960)	(19,960)
17-Mar-2020	The Vanguard Group, Inc.	BUY	2.26	Ordinary	12,192	12,192
17-Mar-2020	The Vanguard Group, Inc.	SELL	2.20	Ordinary	(2,864)	(2,864)
18-Mar-2020	The Vanguard Group, Inc.	BUY	2.02	Ordinary	9,144	9,144
18-Mar-2020	The Vanguard Group, Inc.	SELL	2.05	Ordinary	(17,719)	(17,719)
19-Mar-2020	The Vanguard Group, Inc.	BUY	2.12	Ordinary	304,310	304,310
19-Mar-2020	The Vanguard Group, Inc.	BUY	1.93	Ordinary	12,192	12,192
20-Mar-2020	The Vanguard Group, Inc.	SELL	1.83	Ordinary	(6,825)	(6,825)
20-Mar-2020	The Vanguard Group, Inc.	BUY	1.92	Ordinary	1,575	1,575
22-Nov-2019	Vanguard Investments Australia Ltd.	BUY	3.26	Ordinary	54,336	54,336
25-Nov-2019	Vanguard Investments Australia Ltd.	BUY	3.28	Ordinary	60,174	60,174
25-Nov-2019	Vanguard Investments Australia Ltd.	BUY	3.28	Ordinary	33,430	33,430
25-Nov-2019	Vanguard Investments Australia Ltd.	BUY	3.28	Ordinary	30,591	30,591
26-Nov-2019	Vanguard Investments Australia Ltd.	SELL	3.29	Ordinary	(50,366)	(50,366)
29-Nov-2019	Vanguard Investments Australia Ltd.	BUY	3.36	Ordinary	19,620	19,620
2-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.36	Ordinary	78,512	78,512
4-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.19	Ordinary	36,080	36,080
6-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.20	Ordinary	63,946	63,946
6-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.20	Ordinary	7,120	7,120
9-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.20	Ordinary	19,812	19,812
9-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.20	Ordinary	13,398	13,398
11-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.26	Ordinary	31,005	31,005
11-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.26	Ordinary	25,060	25,060
13-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.23	Ordinary	16,280	16,280
16-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.32	Ordinary	19,500	19,500
18-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.33	Ordinary	22,708	22,708
20-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.33	Ordinary	17,162	17,162
20-Dec-2019	Vanguard Investments Australia Ltd.	SELL	3.33	Ordinary	(9,362)	(9,362)
23-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.33	Ordinary	11,197	11,197
27-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.33	Ordinary	12,978	12,978
30-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.35	Ordinary	13,200	13,200
30-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.35	Ordinary	46,367	46,367

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
31-Dec-2019	Vanguard Investments Australia Ltd.	SELL	3.29	Ordinary	(23,232)	(23,232)
31-Dec-2019	Vanguard Investments Australia Ltd.	BUY	3.29	Ordinary	8,210	8,210
2-Jan-2020	Vanguard Investments Australia Ltd.	BUY	3.30	Ordinary	19,524	19,524
3-Jan-2020	Vanguard Investments Australia Ltd.	SELL	3.36	Ordinary	(111,124)	(111,124)
7-Jan-2020	Vanguard Investments Australia Ltd.	BUY	3.39	Ordinary	9,792	9,792
7-Jan-2020	Vanguard Investments Australia Ltd.	BUY	3.39	Ordinary	40,361	40,361
8-Jan-2020	Vanguard Investments Australia Ltd.	BUY	3.37	Ordinary	24,615	24,615
9-Jan-2020	Vanguard Investments Australia Ltd.	SELL	3.39	Ordinary	(13,192)	(13,192)
13-Jan-2020	Vanguard Investments Australia Ltd.	BUY	3.53	Ordinary	19,140	19,140
13-Jan-2020	Vanguard Investments Australia Ltd.	BUY	3.53	Ordinary	24,975	24,975
14-Jan-2020	Vanguard Investments Australia Ltd.	BUY	3.53	Ordinary	19,140	19,140
15-Jan-2020	Vanguard Investments Australia Ltd.	BUY	3.52	Ordinary	41,665	41,665
21-Jan-2020	Vanguard Investments Australia Ltd.	BUY	3.57	Ordinary	24,870	24,870
30-Jan-2020	Vanguard Investments Australia Ltd.	BUY	3.44	Ordinary	24,900	24,900
31-Jan-2020	Vanguard Investments Australia Ltd.	BUY	3.43	Ordinary	24,564	24,564
3-Feb-2020	Vanguard Investments Australia Ltd.	SELL	3.43	Ordinary	(8,378)	(8,378)
7-Feb-2020	Vanguard Investments Australia Ltd.	BUY	3.45	Ordinary	16,800	16,800
10-Feb-2020	Vanguard Investments Australia Ltd.	BUY	3.43	Ordinary	69,579	69,579
11-Feb-2020	Vanguard Investments Australia Ltd.	BUY	3.46	Ordinary	33,620	33,620
11-Feb-2020	Vanguard Investments Australia Ltd.	BUY	3.46	Ordinary	55,441	55,441
17-Feb-2020	Vanguard Investments Australia Ltd.	SELL	3.38	Ordinary	(35,040)	(35,040)
26-Feb-2020	Vanguard Investments Australia Ltd.	SELL	3.12	Ordinary	(12,208)	(12,208)
26-Feb-2020	Vanguard Investments Australia Ltd.	BUY	3.08	Ordinary	26,448	26,448
27-Feb-2020	Vanguard Investments Australia Ltd.	BUY	3.01	Ordinary	119,842	119,842
28-Feb-2020	Vanguard Investments Australia Ltd.	SELL	2.92	Ordinary	(41,319)	(41,319)
28-Feb-2020	Vanguard Investments Australia Ltd.	SELL	2.92	Ordinary	(11,673)	(11,673)
28-Feb-2020	Vanguard Investments Australia Ltd.	BUY	2.92	Ordinary	24,525	24,525
2-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.90	Ordinary	19,035	19,035
3-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.86	Ordinary	43,767	43,767
4-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.80	Ordinary	27,557	27,557
5-Mar-2020	Vanguard Investments Australia Ltd.	SELL	2.82	Ordinary	(10,214)	(10,214)
5-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.82	Ordinary	12,458	12,458
9-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.50	Ordinary	55,650	55,650
9-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.50	Ordinary	63,368	63,368
10-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.63	Ordinary	62,017	62,017
10-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.63	Ordinary	79,091	79,091
11-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.52	Ordinary	9,316	9,316
11-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.47	Ordinary	39,800	39,800
11-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.47	Ordinary	31,840	31,840
12-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.26	Ordinary	26,945	26,945
12-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.26	Ordinary	47,550	47,550
12-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.26	Ordinary	160,323	160,323
13-Mar-2020	Vanguard Investments Australia Ltd.	SELL	2.36	Ordinary	(21,743)	(21,743)
13-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.36	Ordinary	85,133	85,133
13-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.36	Ordinary	47,790	47,790
13-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.36	Ordinary	97,257	97,257
13-Mar-2020	Vanguard Investments Australia Ltd.	SELL	2.36	Ordinary	(19,740)	(19,740)
16-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.07	Ordinary	55,755	55,755
17-Mar-2020	Vanguard Investments Australia Ltd.	SELL	2.20	Ordinary	(58,377)	(58,377)
17-Mar-2020	Vanguard Investments Australia Ltd.	BUY	2.20	Ordinary	40,475	40,475
17-Mar-2020	Vanguard Investments Australia Ltd.	SELL	2.05	Ordinary	(4,767)	(4,767)
18-Mar-2020	Vanguard Investments Australia Ltd.	BUY	1.98	Ordinary	48,030	48,030
18-Mar-2020	Vanguard Investments Australia Ltd.	BUY	1.98	Ordinary	64,619	64,619
19-Mar-2020	Vanguard Investments Australia Ltd.	BUY	1.91	Ordinary	36,708	36,708
20-Mar-2020	Vanguard Investments Australia Ltd.	BUY	1.89	Ordinary	51,150	51,150

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: 24 March 2020