

Form 604
Corporations Act 2001
Section 671B

Notice of change of interests of substantial holder

To Company Name/Scheme National Storage REIT
ACN/ARSN 166 572 845

1. Details of substantial holder (1)

Name The Vanguard Group, Inc.
ACN/ARSN (if applicable) N/A

There was a change in the interests of the substantial holder on 21 December 2018

The previous notice was given to the company on 17 April 2017

The previous notice was dated 17 April 2017

2. Previous and present 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 when last required, and when now required, to give a substantial holding notice to the company or scheme, are as follows:

Class of securities (4)	Previous notice		Present notice	
	Person's votes	Voting power (5)	Person's votes	Voting power (5)
Ordinary (Vanguard Investments Australia Ltd)	30,304,457	5.976%	41,962,249	6.277%
Ordinary (The Vanguard Group Inc.)	11,391,521	2.246%	19,764,257	2.957%
Total	41,695,978	8.222%	61,726,506	9.234%

3. Changes in relevant interests

Particulars of each change in, or change in the nature of, a relevant interest of the substantial holder or an associate in voting securities of the company or scheme, since the substantial holder was last required to give a substantial holding notice to the company or scheme are as follows:

Date of change	Person whose relevant interest changed	Nature of change (6)	Consideration given in relation to change (7)	Class and number of securities affected	Person's votes affected
See Annexure A					

4. Present relevant interests

Particulars of each relevant interest of the substantial holder in voting securities after the change are as follows:

Holder of relevant interest	Registered holder of securities	Person entitled to be registered as holder (8)	Nature of relevant interest (6)	Class and number of securities	Person's votes
Vanguard Investments Australia Ltd	JP Morgan Chase Bank, N.A. and various other custodians	Vanguard Investments Australia Ltd is the manager of various superannuation funds, institutional investor portfolios and unit trusts and in that capacity can exercise the power to vote and/or dispose of the shares	Beneficial Owner	Ordinary – 41,962,249	41,962,249
The Vanguard Group, Inc.	JP Morgan Chase Bank, N.A.	The Vanguard Group, Inc. is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares	Beneficial Owner	Ordinary – 9,157,024	9,157,024
The Vanguard Group, Inc.	Brown Brothers Harriman	The Vanguard Group, Inc. is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares	Beneficial Owner	Ordinary – 170,235	170,235
The Vanguard Group, Inc.	State Street Bank and Trust Company	The Vanguard Group, Inc., is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares	Beneficial Owner	Ordinary – 7,890,829	7,890,829
The Vanguard Group, Inc.	BNY Mellon	The Vanguard Group, Inc., is the manager of various Mutual funds and accounts and in that capacity has the power to dispose of the shares	Beneficial Owner	Ordinary – 2,546,169	2,546,169

5. Changes in association

The persons who have become associates (2) of, ceased to be associates of, or have changed the nature of their association (9) with, the substantial holder in relation to voting interests in the company or scheme are as follows:

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

6. Addresses

The addresses of persons named in this form are as follows:

Name	Address
Vanguard Investments Australia Ltd	Level 34, 2 Southbank Blvd, Southbank 3006 VIC Australia
The Vanguard Group, Inc.	P.O. Box 2600, V26 Valley Forge, PA 19482 USA Attn: Shawn Acker Compliance Manager Vanguard_Fund_Compliance@Vanguard.com

Signature

print name THOMAS BOVE capacity _____
sign here  date 12/20/18 28 December 2018

- (1) If there are a number of substantial holders with similar or related relevant 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 6 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 person's votes divided by the total votes in the body corporate or scheme multiplied by 100.
 - (6) Include details of:
 - (a) any relevant agreement or other circumstances because of which the change in relevant interest occurred. 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.
- (7) Details of the consideration must include any and all benefits, money and other, that any person from whom a relevant interest was 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.
 - (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) Give details, if appropriate, of the present association and any change in that association since the last substantial holding notice.

Annexure A

To Company
ACN/ARSN

National Storage REIT
166 572 845

Substantial Holder Name
ACN/ARSN

The Vanguard Group, Inc.
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
11-Apr-17	The Vanguard Group, Inc.	BUY	1.45	Ordinary	1,642	1,642
11-Apr-17	The Vanguard Group, Inc.	BUY	1.44	Ordinary	92,798	92,798
12-Apr-17	The Vanguard Group, Inc.	BUY	1.47	Ordinary	17,548	17,548
19-Apr-17	The Vanguard Group, Inc.	BUY	1.49	Ordinary	17,548	17,548
21-Apr-17	The Vanguard Group, Inc.	BUY	1.50	Ordinary	17,910	17,910
21-Apr-17	The Vanguard Group, Inc.	BUY	1.50	Ordinary	28,656	28,656
24-Apr-17	The Vanguard Group, Inc.	BUY	1.50	Ordinary	39,402	39,402
24-Apr-17	The Vanguard Group, Inc.	BUY	1.50	Ordinary	10,746	10,746
2-May-17	The Vanguard Group, Inc.	BUY	1.48	Ordinary	21,935	21,935
4-May-17	The Vanguard Group, Inc.	BUY	1.47	Ordinary	13,161	13,161
4-May-17	The Vanguard Group, Inc.	BUY	1.47	Ordinary	4,387	4,387
9-May-17	The Vanguard Group, Inc.	BUY	1.47	Ordinary	93,422	93,422
10-May-17	The Vanguard Group, Inc.	BUY	1.48	Ordinary	17,910	17,910
15-May-17	The Vanguard Group, Inc.	BUY	1.46	Ordinary	21,492	21,492
18-May-17	The Vanguard Group, Inc.	BUY	1.43	Ordinary	14,328	14,328
18-May-17	The Vanguard Group, Inc.	BUY	1.43	Ordinary	21,935	21,935
24-May-17	The Vanguard Group, Inc.	BUY	1.48	Ordinary	13,161	13,161
5-Jun-17	The Vanguard Group, Inc.	BUY	1.47	Ordinary	7,164	7,164
6-Jun-17	The Vanguard Group, Inc.	BUY	1.47	Ordinary	14,328	14,328
6-Jun-17	The Vanguard Group, Inc.	BUY	1.46	Ordinary	21,935	21,935
9-Jun-17	The Vanguard Group, Inc.	BUY	1.47	Ordinary	98,097	98,097
12-Jun-17	The Vanguard Group, Inc.	BUY	1.47	Ordinary	21,492	21,492
14-Jun-17	The Vanguard Group, Inc.	BUY	1.46	Ordinary	17,548	17,548
16-Jun-17	The Vanguard Group, Inc.	BUY	1.51	Ordinary	7,999	7,999
16-Jun-17	The Vanguard Group, Inc.	BUY	1.51	Ordinary	182,200	182,200
16-Jun-17	The Vanguard Group, Inc.	BUY	1.51	Ordinary	49,542	49,542
28-Jun-17	The Vanguard Group, Inc.	BUY	1.57	Ordinary	17,548	17,548
28-Jun-17	The Vanguard Group, Inc.	BUY	1.57	Ordinary	13,161	13,161
29-Jun-17	The Vanguard Group, Inc.	BUY	1.53	Ordinary	39,402	39,402
12-Jul-17	The Vanguard Group, Inc.	BUY	1.51	Ordinary	14,328	14,328
26-Jul-17	The Vanguard Group, Inc.	BUY	1.53	Ordinary	21,492	21,492
2-Aug-17	The Vanguard Group, Inc.	BUY	1.49	Ordinary	7,164	7,164
3-Aug-17	The Vanguard Group, Inc.	BUY	1.51	Ordinary	21,492	21,492
3-Aug-17	The Vanguard Group, Inc.	BUY	1.51	Ordinary	8,774	8,774
4-Aug-17	The Vanguard Group, Inc.	BUY	1.53	Ordinary	10,746	10,746
8-Aug-17	The Vanguard Group, Inc.	BUY	1.52	Ordinary	21,935	21,935
9-Aug-17	The Vanguard Group, Inc.	BUY	1.53	Ordinary	13,161	13,161
14-Aug-17	The Vanguard Group, Inc.	BUY	1.54	Ordinary	17,910	17,910
21-Aug-17	The Vanguard Group, Inc.	BUY	1.55	Ordinary	21,492	21,492
29-Aug-17	The Vanguard Group, Inc.	BUY	1.53	Ordinary	21,492	21,492
31-Aug-17	The Vanguard Group, Inc.	BUY	1.55	Ordinary	7,164	7,164
5-Sep-17	The Vanguard Group, Inc.	BUY	1.55	Ordinary	10,746	10,746
8-Sep-17	The Vanguard Group, Inc.	BUY	1.52	Ordinary	13,161	13,161
14-Sep-17	The Vanguard Group, Inc.	BUY	1.52	Ordinary	3,582	3,582
15-Sep-17	The Vanguard Group, Inc.	SELL	1.53	Ordinary	(4,890)	(4,890)
25-Sep-17	The Vanguard Group, Inc.	BUY	1.47	Ordinary	24,824	24,824
27-Sep-17	The Vanguard Group, Inc.	SELL	1.49	Ordinary	(2,279)	(2,279)
27-Sep-17	The Vanguard Group, Inc.	BUY	1.49	Ordinary	2,279	2,279
27-Sep-17	The Vanguard Group, Inc.	BUY	1.49	Ordinary	6,206	6,206
2-Oct-17	The Vanguard Group, Inc.	BUY	1.49	Ordinary	9,309	9,309
12-Oct-17	The Vanguard Group, Inc.	BUY	1.52	Ordinary	24,824	24,824
19-Oct-17	The Vanguard Group, Inc.	BUY	1.52	Ordinary	169,790	169,790
20-Oct-17	The Vanguard Group, Inc.	BUY	1.51	Ordinary	79,378	79,378
20-Oct-17	The Vanguard Group, Inc.	BUY	1.51	Ordinary	24,824	24,824
31-Oct-17	The Vanguard Group, Inc.	BUY	1.48	Ordinary	6,206	6,206
31-Oct-17	The Vanguard Group, Inc.	BUY	1.48	Ordinary	18,618	18,618
2-Nov-17	The Vanguard Group, Inc.	BUY	1.48	Ordinary	12,412	12,412
3-Nov-17	The Vanguard Group, Inc.	BUY	1.47	Ordinary	18,618	18,618
13-Nov-17	The Vanguard Group, Inc.	BUY	1.53	Ordinary	24,824	24,824
15-Nov-17	The Vanguard Group, Inc.	BUY	1.53	Ordinary	12,412	12,412
17-Nov-17	The Vanguard Group, Inc.	BUY	1.53	Ordinary	31,030	31,030

Annexure 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
24-Nov-17	The Vanguard Group, Inc.	BUY	1.55	Ordinary	24,824	24,824
30-Nov-17	The Vanguard Group, Inc.	BUY	1.65	Ordinary	23,703	23,703
30-Nov-17	The Vanguard Group, Inc.	BUY	1.65	Ordinary	1,381	1,381
8-Dec-17	The Vanguard Group, Inc.	BUY	1.58	Ordinary	9,246	9,246
8-Dec-17	The Vanguard Group, Inc.	BUY	1.58	Ordinary	27,738	27,738
14-Dec-17	The Vanguard Group, Inc.	BUY	1.50	Ordinary	7,261	7,261
14-Dec-17	The Vanguard Group, Inc.	BUY	1.50	Ordinary	189,803	189,803
15-Dec-17	The Vanguard Group, Inc.	BUY	1.59	Ordinary	5,876	5,876
15-Dec-17	The Vanguard Group, Inc.	BUY	1.59	Ordinary	77,813	77,813
20-Dec-17	The Vanguard Group, Inc.	SELL	1.56	Ordinary	(6,234)	(6,234)
8-Jan-18	The Vanguard Group, Inc.	BUY	1.54	Ordinary	23,415	23,415
18-Jan-18	The Vanguard Group, Inc.	BUY	1.54	Ordinary	30,105	30,105
19-Jan-18	The Vanguard Group, Inc.	BUY	1.53	Ordinary	13,380	13,380
23-Jan-18	The Vanguard Group, Inc.	BUY	1.54	Ordinary	20,070	20,070
24-Jan-18	The Vanguard Group, Inc.	BUY	1.53	Ordinary	6,690	6,690
26-Jan-18	The Vanguard Group, Inc.	BUY	1.54	Ordinary	26,760	26,760
2-Feb-18	The Vanguard Group, Inc.	BUY	1.47	Ordinary	26,760	26,760
5-Feb-18	The Vanguard Group, Inc.	BUY	1.46	Ordinary	13,380	13,380
14-Feb-18	The Vanguard Group, Inc.	BUY	1.49	Ordinary	2,025	2,025
20-Feb-18	The Vanguard Group, Inc.	BUY	1.49	Ordinary	10,035	10,035
28-Feb-18	The Vanguard Group, Inc.	BUY	1.53	Ordinary	155,765	155,765
5-Mar-18	The Vanguard Group, Inc.	SELL	1.53	Ordinary	(30,105)	(30,105)
15-Mar-18	The Vanguard Group, Inc.	BUY	1.55	Ordinary	13,380	13,380
16-Mar-18	The Vanguard Group, Inc.	BUY	1.57	Ordinary	1,089	1,089
16-Mar-18	The Vanguard Group, Inc.	SELL	1.57	Ordinary	(312)	(312)
16-Mar-18	The Vanguard Group, Inc.	BUY	1.56	Ordinary	75,914	75,914
16-Mar-18	The Vanguard Group, Inc.	BUY	1.56	Ordinary	344,038	344,038
16-Mar-18	The Vanguard Group, Inc.	BUY	1.56	Ordinary	69,995	69,995
23-Mar-18	The Vanguard Group, Inc.	BUY	1.54	Ordinary	9,657	9,657
6-Apr-18	The Vanguard Group, Inc.	BUY	1.55	Ordinary	735,960	735,960
10-Apr-18	The Vanguard Group, Inc.	BUY	1.61	Ordinary	22,533	22,533
12-Apr-18	The Vanguard Group, Inc.	BUY	1.60	Ordinary	9,657	9,657
16-Apr-18	The Vanguard Group, Inc.	BUY	1.60	Ordinary	22,533	22,533
2-May-18	The Vanguard Group, Inc.	BUY	1.62	Ordinary	12,876	12,876
2-May-18	The Vanguard Group, Inc.	BUY	1.62	Ordinary	22,533	22,533
10-May-18	The Vanguard Group, Inc.	BUY	1.60	Ordinary	688,786	688,786
5-Jun-18	The Vanguard Group, Inc.	BUY	1.58	Ordinary	9,657	9,657
6-Jun-18	The Vanguard Group, Inc.	BUY	1.60	Ordinary	242,468	242,468
7-Jun-18	The Vanguard Group, Inc.	BUY	1.60	Ordinary	105,363	105,363
15-Jun-18	The Vanguard Group, Inc.	BUY	1.58	Ordinary	91,330	91,330
18-Jun-18	The Vanguard Group, Inc.	BUY	1.60	Ordinary	10,188	10,188
18-Jun-18	The Vanguard Group, Inc.	BUY	1.60	Ordinary	50,940	50,940
19-Jun-18	The Vanguard Group, Inc.	BUY	1.60	Ordinary	12,676	12,676
22-Jun-18	The Vanguard Group, Inc.	BUY	1.64	Ordinary	38,028	38,028
9-Jul-18	The Vanguard Group, Inc.	BUY	1.72	Ordinary	8,973	8,973
10-Jul-18	The Vanguard Group, Inc.	BUY	1.73	Ordinary	410,128	410,128
18-Jul-18	The Vanguard Group, Inc.	SELL	1.72	Ordinary	(17,946)	(17,946)
19-Jul-18	The Vanguard Group, Inc.	BUY	1.71	Ordinary	25,352	25,352
24-Jul-18	The Vanguard Group, Inc.	BUY	1.70	Ordinary	25,352	25,352
30-Jul-18	The Vanguard Group, Inc.	BUY	1.72	Ordinary	12,676	12,676
31-Jul-18	The Vanguard Group, Inc.	BUY	1.71	Ordinary	19,014	19,014
31-Jul-18	The Vanguard Group, Inc.	BUY	1.71	Ordinary	38,028	38,028
3-Aug-18	The Vanguard Group, Inc.	BUY	1.72	Ordinary	19,014	19,014
3-Aug-18	The Vanguard Group, Inc.	BUY	1.72	Ordinary	19,014	19,014
6-Aug-18	The Vanguard Group, Inc.	BUY	1.73	Ordinary	25,352	25,352
9-Aug-18	The Vanguard Group, Inc.	SELL	1.72	Ordinary	(20,937)	(20,937)
9-Aug-18	The Vanguard Group, Inc.	BUY	1.72	Ordinary	19,014	19,014
9-Aug-18	The Vanguard Group, Inc.	BUY	1.72	Ordinary	12,676	12,676
16-Aug-18	The Vanguard Group, Inc.	BUY	1.75	Ordinary	19,014	19,014
24-Aug-18	The Vanguard Group, Inc.	BUY	1.66	Ordinary	16,176	16,176
24-Aug-18	The Vanguard Group, Inc.	BUY	1.66	Ordinary	940	940
24-Aug-18	The Vanguard Group, Inc.	BUY	1.66	Ordinary	1,573	1,573
24-Aug-18	The Vanguard Group, Inc.	BUY	1.66	Ordinary	127	127
24-Aug-18	The Vanguard Group, Inc.	BUY	1.66	Ordinary	77,739	77,739
24-Aug-18	The Vanguard Group, Inc.	BUY	1.66	Ordinary	1,048,214	1,048,214
24-Aug-18	The Vanguard Group, Inc.	SELL	1.70	Ordinary	(12,521)	(12,521)
24-Aug-18	The Vanguard Group, Inc.	BUY	1.66	Ordinary	435,843	435,843
24-Aug-18	The Vanguard Group, Inc.	BUY	1.70	Ordinary	12,521	12,521

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
24-Aug-18	The Vanguard Group, Inc.	BUY	1.66	Ordinary	27,209	27,209
24-Aug-18	The Vanguard Group, Inc.	BUY	1.66	Ordinary	184,091	184,091
24-Aug-18	The Vanguard Group, Inc.	BUY	1.66	Ordinary	191,510	191,510
24-Aug-18	The Vanguard Group, Inc.	BUY	1.66	Ordinary	209,676	209,676
5-Sep-18	The Vanguard Group, Inc.	BUY	1.69	Ordinary	34,354	34,354
5-Sep-18	The Vanguard Group, Inc.	BUY	1.66	Ordinary	270,270	270,270
11-Sep-18	The Vanguard Group, Inc.	BUY	1.67	Ordinary	169,052	169,052
21-Sep-18	The Vanguard Group, Inc.	SELL	1.70	Ordinary	(204,773)	(204,773)
21-Sep-18	The Vanguard Group, Inc.	SELL	1.70	Ordinary	(226,522)	(226,522)
21-Sep-18	The Vanguard Group, Inc.	SELL	1.70	Ordinary	(105,517)	(105,517)
12-Oct-18	The Vanguard Group, Inc.	SELL	1.62	Ordinary	(30,880)	(30,880)
23-Oct-18	The Vanguard Group, Inc.	SELL	1.70	Ordinary	(30,880)	(30,880)
23-Oct-18	The Vanguard Group, Inc.	SELL	1.70	Ordinary	(11,580)	(11,580)
29-Oct-18	The Vanguard Group, Inc.	SELL	1.70	Ordinary	(15,440)	(15,440)
29-Oct-18	The Vanguard Group, Inc.	SELL	1.70	Ordinary	(15,440)	(15,440)
31-Oct-18	The Vanguard Group, Inc.	SELL	1.71	Ordinary	(50,180)	(50,180)
31-Oct-18	The Vanguard Group, Inc.	SELL	1.71	Ordinary	(11,580)	(11,580)
12-Nov-18	The Vanguard Group, Inc.	BUY	1.74	Ordinary	9,596	9,596
14-Nov-18	The Vanguard Group, Inc.	BUY	1.75	Ordinary	306,055	306,055
15-Nov-18	The Vanguard Group, Inc.	BUY	1.73	Ordinary	14,394	14,394
30-Nov-18	The Vanguard Group, Inc.	BUY	1.74	Ordinary	14,394	14,394
4-Dec-18	The Vanguard Group, Inc.	BUY	1.74	Ordinary	14,394	14,394
6-Dec-18	The Vanguard Group, Inc.	BUY	1.77	Ordinary	19,192	19,192
7-Dec-18	The Vanguard Group, Inc.	BUY	1.76	Ordinary	19,192	19,192
11-Dec-18	The Vanguard Group, Inc.	BUY	1.76	Ordinary	19,192	19,192
12-Dec-18	The Vanguard Group, Inc.	BUY	1.78	Ordinary	11,580	11,580
12-Dec-18	The Vanguard Group, Inc.	BUY	1.78	Ordinary	93,469	93,469
14-Dec-18	The Vanguard Group, Inc.	BUY	1.74	Ordinary	14,394	14,394
18-Dec-18	The Vanguard Group, Inc.	BUY	1.76	Ordinary	195,498	195,498
19-Dec-18	The Vanguard Group, Inc.	SELL	1.79	Ordinary	(23,160)	(23,160)
19-Dec-18	The Vanguard Group, Inc.	BUY	1.79	Ordinary	19,192	19,192
21-Dec-18	The Vanguard Group, Inc.	BUY	1.80	Ordinary	8,837	8,837
21-Dec-18	The Vanguard Group, Inc.	BUY	1.80	Ordinary	336,867	336,867
21-Dec-18	The Vanguard Group, Inc.	SELL	1.80	Ordinary	(139,457)	(139,457)
11-Apr-17	Vanguard Investments Australia Ltd.	BUY	1.45	Ordinary	13,382	13,382
12-Apr-17	Vanguard Investments Australia Ltd.	SELL	1.48	Ordinary	(38,786)	(38,786)
19-Apr-17	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	12,664	12,664
20-Apr-17	Vanguard Investments Australia Ltd.	BUY	1.49	Ordinary	168,503	168,503
20-Apr-17	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	6,882	6,882
27-Apr-17	Vanguard Investments Australia Ltd.	BUY	1.48	Ordinary	14,247	14,247
28-Apr-17	Vanguard Investments Australia Ltd.	BUY	1.49	Ordinary	33,455	33,455
28-Apr-17	Vanguard Investments Australia Ltd.	BUY	1.49	Ordinary	6,332	6,332
1-May-17	Vanguard Investments Australia Ltd.	SELL	1.48	Ordinary	(9,958)	(9,958)
1-May-17	Vanguard Investments Australia Ltd.	SELL	1.48	Ordinary	(113,260)	(113,260)
5-May-17	Vanguard Investments Australia Ltd.	BUY	1.46	Ordinary	6,691	6,691
9-May-17	Vanguard Investments Australia Ltd.	BUY	1.48	Ordinary	15,830	15,830
10-May-17	Vanguard Investments Australia Ltd.	BUY	1.48	Ordinary	13,382	13,382
12-May-17	Vanguard Investments Australia Ltd.	BUY	1.47	Ordinary	20,073	20,073
15-May-17	Vanguard Investments Australia Ltd.	BUY	1.46	Ordinary	11,081	11,081
17-May-17	Vanguard Investments Australia Ltd.	BUY	1.46	Ordinary	13,162	13,162
17-May-17	Vanguard Investments Australia Ltd.	BUY	1.46	Ordinary	70,015	70,015
18-May-17	Vanguard Investments Australia Ltd.	BUY	1.43	Ordinary	11,081	11,081
19-May-17	Vanguard Investments Australia Ltd.	SELL	1.43	Ordinary	(11,788)	(11,788)
23-May-17	Vanguard Investments Australia Ltd.	BUY	1.45	Ordinary	13,162	13,162
25-May-17	Vanguard Investments Australia Ltd.	SELL	1.47	Ordinary	(12,728)	(12,728)
26-May-17	Vanguard Investments Australia Ltd.	BUY	1.48	Ordinary	6,882	6,882
29-May-17	Vanguard Investments Australia Ltd.	BUY	1.47	Ordinary	26,324	26,324
31-May-17	Vanguard Investments Australia Ltd.	BUY	1.46	Ordinary	13,611	13,611
31-May-17	Vanguard Investments Australia Ltd.	BUY	1.46	Ordinary	26,516	26,516
2-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.48	Ordinary	13,382	13,382
6-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.46	Ordinary	15,830	15,830
8-Jun-17	Vanguard Investments Australia Ltd.	SELL	1.46	Ordinary	(233,807)	(233,807)
8-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.47	Ordinary	23,745	23,745
9-Jun-17	Vanguard Investments Australia Ltd.	SELL	1.47	Ordinary	(12,508)	(12,508)
13-Jun-17	Vanguard Investments Australia Ltd.	SELL	1.47	Ordinary	(1,218)	(1,218)
14-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.47	Ordinary	70,089	70,089
15-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.49	Ordinary	33,465	33,465
16-Jun-17	Vanguard Investments Australia Ltd.	SELL	1.51	Ordinary	(14,199)	(14,199)

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-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	18,187	18,187
16-Jun-17	Vanguard Investments Australia Ltd.	SELL	1.51	Ordinary	(49,243)	(49,243)
16-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	13,386	13,386
16-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	22,162	22,162
16-Jun-17	Vanguard Investments Australia Ltd.	SELL	1.51	Ordinary	(68,850)	(68,850)
20-Jun-17	Vanguard Investments Australia Ltd.	SELL	1.50	Ordinary	(12,548)	(12,548)
20-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	10,626	10,626
21-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	13,320	13,320
22-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	17,710	17,710
23-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	7,581	7,581
27-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.54	Ordinary	19,980	19,980
27-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.54	Ordinary	14,265	14,265
29-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	40,584	40,584
30-Jun-17	Vanguard Investments Australia Ltd.	SELL	1.51	Ordinary	(186,609)	(186,609)
30-Jun-17	Vanguard Investments Australia Ltd.	SELL	1.51	Ordinary	(6,156)	(6,156)
30-Jun-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	15,850	15,850
3-Jul-17	Vanguard Investments Australia Ltd.	SELL	1.48	Ordinary	(153,027)	(153,027)
3-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.48	Ordinary	15,850	15,850
5-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	6,661	6,661
5-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	13,322	13,322
6-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	65,063	65,063
6-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	133,220	133,220
6-Jul-17	Vanguard Investments Australia Ltd.	SELL	1.53	Ordinary	(95,301)	(95,301)
10-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	19,020	19,020
11-Jul-17	Vanguard Investments Australia Ltd.	SELL	1.51	Ordinary	(54,150)	(54,150)
11-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	19,983	19,983
11-Jul-17	Vanguard Investments Australia Ltd.	SELL	1.51	Ordinary	(59,951)	(59,951)
12-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	10,004	10,004
12-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	11,095	11,095
13-Jul-17	Vanguard Investments Australia Ltd.	SELL	1.52	Ordinary	(109,912)	(109,912)
13-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.52	Ordinary	66,015	66,015
13-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.52	Ordinary	6,661	6,661
13-Jul-17	Vanguard Investments Australia Ltd.	SELL	1.52	Ordinary	(119,831)	(119,831)
13-Jul-17	Vanguard Investments Australia Ltd.	SELL	1.52	Ordinary	(53,747)	(53,747)
17-Jul-17	Vanguard Investments Australia Ltd.	SELL	1.52	Ordinary	(109,437)	(109,437)
17-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	19,983	19,983
17-Jul-17	Vanguard Investments Australia Ltd.	SELL	1.52	Ordinary	(104,280)	(104,280)
18-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	11,095	11,095
20-Jul-17	Vanguard Investments Australia Ltd.	SELL	1.52	Ordinary	(123,052)	(123,052)
20-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.52	Ordinary	101,506	101,506
20-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.52	Ordinary	19,983	19,983
20-Jul-17	Vanguard Investments Australia Ltd.	SELL	1.52	Ordinary	(90,410)	(90,410)
24-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	59,949	59,949
24-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	22,190	22,190
25-Jul-17	Vanguard Investments Australia Ltd.	SELL	1.53	Ordinary	(110,183)	(110,183)
25-Jul-17	Vanguard Investments Australia Ltd.	SELL	1.54	Ordinary	(39,966)	(39,966)
25-Jul-17	Vanguard Investments Australia Ltd.	SELL	1.53	Ordinary	(88,243)	(88,243)
27-Jul-17	Vanguard Investments Australia Ltd.	SELL	1.52	Ordinary	(88,484)	(88,484)
28-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	7,503	7,503
31-Jul-17	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	12,680	12,680
3-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.52	Ordinary	13,316	13,316
3-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.52	Ordinary	17,435	17,435
4-Aug-17	Vanguard Investments Australia Ltd.	SELL	1.53	Ordinary	(126,502)	(126,502)
8-Aug-17	Vanguard Investments Australia Ltd.	SELL	1.52	Ordinary	(57,952)	(57,952)
9-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	6,658	6,658
9-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	19,974	19,974
11-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	22,190	22,190
15-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.54	Ordinary	10,004	10,004
18-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.57	Ordinary	4,734	4,734
22-Aug-17	Vanguard Investments Australia Ltd.	SELL	1.57	Ordinary	(1,629)	(1,629)
22-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.57	Ordinary	8,227	8,227
22-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.57	Ordinary	9,057	9,057
23-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.55	Ordinary	11,095	11,095
23-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.55	Ordinary	12,680	12,680
25-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	20,235	20,235
29-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	21,972	21,972
30-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.54	Ordinary	157,924	157,924
31-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.55	Ordinary	6,567	6,567

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-Aug-17	Vanguard Investments Australia Ltd.	BUY	1.55	Ordinary	12,680	12,680
1-Sep-17	Vanguard Investments Australia Ltd.	BUY	1.55	Ordinary	20,235	20,235
5-Sep-17	Vanguard Investments Australia Ltd.	BUY	1.55	Ordinary	75,622	75,622
8-Sep-17	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	19,074	19,074
11-Sep-17	Vanguard Investments Australia Ltd.	SELL	1.53	Ordinary	(6,749)	(6,749)
14-Sep-17	Vanguard Investments Australia Ltd.	BUY	1.52	Ordinary	6,745	6,745
15-Sep-17	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	20,235	20,235
15-Sep-17	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	57,358	57,358
15-Sep-17	Vanguard Investments Australia Ltd.	SELL	1.53	Ordinary	(114,101)	(114,101)
21-Sep-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	33,835	33,835
21-Sep-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	26,586	26,586
26-Sep-17	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	64,566	64,566
27-Sep-17	Vanguard Investments Australia Ltd.	BUY	1.49	Ordinary	77,806	77,806
28-Sep-17	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	288,648	288,648
29-Sep-17	Vanguard Investments Australia Ltd.	SELL	1.50	Ordinary	(61,358)	(61,358)
29-Sep-17	Vanguard Investments Australia Ltd.	SELL	1.50	Ordinary	(4,937)	(4,937)
3-Oct-17	Vanguard Investments Australia Ltd.	SELL	1.50	Ordinary	(11,297)	(11,297)
3-Oct-17	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	20,214	20,214
4-Oct-17	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	19,970	19,970
10-Oct-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	9,960	9,960
11-Oct-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	5,535	5,535
12-Oct-17	Vanguard Investments Australia Ltd.	BUY	1.52	Ordinary	13,476	13,476
18-Oct-17	Vanguard Investments Australia Ltd.	SELL	1.51	Ordinary	(3,799)	(3,799)
25-Oct-17	Vanguard Investments Australia Ltd.	SELL	1.47	Ordinary	(6,925)	(6,925)
27-Oct-17	Vanguard Investments Australia Ltd.	BUY	1.47	Ordinary	20,214	20,214
27-Oct-17	Vanguard Investments Australia Ltd.	BUY	1.47	Ordinary	11,982	11,982
6-Nov-17	Vanguard Investments Australia Ltd.	BUY	1.49	Ordinary	20,214	20,214
7-Nov-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	7,674	7,674
7-Nov-17	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	17,973	17,973
8-Nov-17	Vanguard Investments Australia Ltd.	SELL	1.49	Ordinary	(6,885)	(6,885)
15-Nov-17	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	13,476	13,476
16-Nov-17	Vanguard Investments Australia Ltd.	BUY	1.52	Ordinary	18,054	18,054
20-Nov-17	Vanguard Investments Australia Ltd.	BUY	1.54	Ordinary	10,232	10,232
22-Nov-17	Vanguard Investments Australia Ltd.	BUY	1.55	Ordinary	26,952	26,952
22-Nov-17	Vanguard Investments Australia Ltd.	BUY	1.55	Ordinary	20,060	20,060
24-Nov-17	Vanguard Investments Australia Ltd.	SELL	1.55	Ordinary	(7,617)	(7,617)
24-Nov-17	Vanguard Investments Australia Ltd.	BUY	1.55	Ordinary	26,078	26,078
29-Nov-17	Vanguard Investments Australia Ltd.	SELL	1.64	Ordinary	(26,952)	(26,952)
30-Nov-17	Vanguard Investments Australia Ltd.	SELL	1.65	Ordinary	(7,356)	(7,356)
1-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.62	Ordinary	9,876	9,876
4-Dec-17	Vanguard Investments Australia Ltd.	SELL	1.63	Ordinary	(11,709)	(11,709)
4-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.63	Ordinary	11,709	11,709
4-Dec-17	Vanguard Investments Australia Ltd.	SELL	1.63	Ordinary	(32,298)	(32,298)
4-Dec-17	Vanguard Investments Australia Ltd.	SELL	1.63	Ordinary	(252,594)	(252,594)
5-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.59	Ordinary	20,214	20,214
5-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.59	Ordinary	13,476	13,476
5-Dec-17	Vanguard Investments Australia Ltd.	SELL	1.59	Ordinary	(47,277)	(47,277)
5-Dec-17	Vanguard Investments Australia Ltd.	SELL	1.59	Ordinary	(44,132)	(44,132)
6-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.58	Ordinary	141,434	141,434
11-Dec-17	Vanguard Investments Australia Ltd.	SELL	1.59	Ordinary	(6,674)	(6,674)
11-Dec-17	Vanguard Investments Australia Ltd.	SELL	1.59	Ordinary	(63,251)	(63,251)
14-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.56	Ordinary	11,345	11,345
18-Dec-17	Vanguard Investments Australia Ltd.	SELL	1.60	Ordinary	(10,080)	(10,080)
19-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	54,900	54,900
19-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.57	Ordinary	67,320	67,320
19-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.57	Ordinary	13,464	13,464
19-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	1,301,058	1,301,058
19-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	19,042	19,042
20-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.57	Ordinary	12,260	12,260
20-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.57	Ordinary	20,862	20,862
27-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.57	Ordinary	67,320	67,320
28-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.54	Ordinary	113,387	113,387
28-Dec-17	Vanguard Investments Australia Ltd.	SELL	1.55	Ordinary	(145,640)	(145,640)
28-Dec-17	Vanguard Investments Australia Ltd.	BUY	1.54	Ordinary	101,370	101,370
4-Jan-18	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	128,159	128,159
4-Jan-18	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	7,764	7,764
8-Jan-18	Vanguard Investments Australia Ltd.	BUY	1.54	Ordinary	14,534	14,534
10-Jan-18	Vanguard Investments Australia Ltd.	SELL	1.53	Ordinary	(30,134)	(30,134)

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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-Jan-18	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	14,534	14,534
16-Jan-18	Vanguard Investments Australia Ltd.	BUY	1.51	Ordinary	26,130	26,130
23-Jan-18	Vanguard Investments Australia Ltd.	BUY	1.54	Ordinary	90,850	90,850
24-Jan-18	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	15,528	15,528
24-Jan-18	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	18,291	18,291
25-Jan-18	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	79,945	79,945
25-Jan-18	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	14,534	14,534
25-Jan-18	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	79,039	79,039
29-Jan-18	Vanguard Investments Australia Ltd.	BUY	1.53	Ordinary	15,678	15,678
31-Jan-18	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	14,509	14,509
1-Feb-18	Vanguard Investments Australia Ltd.	SELL	1.49	Ordinary	(198,588)	(198,588)
2-Feb-18	Vanguard Investments Australia Ltd.	BUY	1.48	Ordinary	14,534	14,534
6-Feb-18	Vanguard Investments Australia Ltd.	BUY	1.47	Ordinary	15,678	15,678
7-Feb-18	Vanguard Investments Australia Ltd.	BUY	1.49	Ordinary	149,874	149,874
9-Feb-18	Vanguard Investments Australia Ltd.	BUY	1.47	Ordinary	31,356	31,356
13-Feb-18	Vanguard Investments Australia Ltd.	SELL	1.50	Ordinary	(44,238)	(44,238)
15-Feb-18	Vanguard Investments Australia Ltd.	SELL	1.50	Ordinary	(6,323)	(6,323)
20-Feb-18	Vanguard Investments Australia Ltd.	BUY	1.49	Ordinary	31,356	31,356
26-Feb-18	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	18,919	18,919
26-Feb-18	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	14,746	14,746
26-Feb-18	Vanguard Investments Australia Ltd.	BUY	1.50	Ordinary	30,535	30,535
27-Feb-18	Vanguard Investments Australia Ltd.	BUY	1.54	Ordinary	62,284	62,284
1-Mar-18	Vanguard Investments Australia Ltd.	BUY	1.54	Ordinary	23,517	23,517
13-Mar-18	Vanguard Investments Australia Ltd.	BUY	1.56	Ordinary	10,805	10,805
15-Mar-18	Vanguard Investments Australia Ltd.	BUY	1.55	Ordinary	7,968	7,968
21-Mar-18	Vanguard Investments Australia Ltd.	SELL	1.57	Ordinary	(102,984)	(102,984)
21-Mar-18	Vanguard Investments Australia Ltd.	BUY	1.57	Ordinary	13,980	13,980
22-Mar-18	Vanguard Investments Australia Ltd.	SELL	1.55	Ordinary	(12,400)	(12,400)
26-Mar-18	Vanguard Investments Australia Ltd.	SELL	1.55	Ordinary	(59,010)	(59,010)
26-Mar-18	Vanguard Investments Australia Ltd.	BUY	1.56	Ordinary	10,440	10,440
27-Mar-18	Vanguard Investments Australia Ltd.	BUY	1.58	Ordinary	29,868	29,868
27-Mar-18	Vanguard Investments Australia Ltd.	BUY	1.58	Ordinary	71,039	71,039
27-Mar-18	Vanguard Investments Australia Ltd.	BUY	1.58	Ordinary	127,757	127,757
27-Mar-18	Vanguard Investments Australia Ltd.	BUY	1.58	Ordinary	25,630	25,630
29-Mar-18	Vanguard Investments Australia Ltd.	SELL	1.57	Ordinary	(154,885)	(154,885)
5-Apr-18	Vanguard Investments Australia Ltd.	BUY	1.56	Ordinary	27,024	27,024
19-Apr-18	Vanguard Investments Australia Ltd.	BUY	1.63	Ordinary	27,024	27,024
20-Apr-18	Vanguard Investments Australia Ltd.	BUY	1.59	Ordinary	7,830	7,830
24-Apr-18	Vanguard Investments Australia Ltd.	BUY	1.58	Ordinary	5,220	5,220
2-May-18	Vanguard Investments Australia Ltd.	BUY	1.63	Ordinary	13,050	13,050
4-May-18	Vanguard Investments Australia Ltd.	BUY	1.60	Ordinary	13,512	13,512
11-May-18	Vanguard Investments Australia Ltd.	BUY	1.59	Ordinary	185,007	185,007
11-May-18	Vanguard Investments Australia Ltd.	SELL	1.59	Ordinary	(185,007)	(185,007)
17-May-18	Vanguard Investments Australia Ltd.	BUY	1.54	Ordinary	8,046	8,046
18-May-18	Vanguard Investments Australia Ltd.	BUY	1.55	Ordinary	15,764	15,764
22-May-18	Vanguard Investments Australia Ltd.	SELL	1.54	Ordinary	(12,800)	(12,800)
22-May-18	Vanguard Investments Australia Ltd.	BUY	1.54	Ordinary	7,246	7,246
22-May-18	Vanguard Investments Australia Ltd.	BUY	1.54	Ordinary	18,016	18,016
29-May-18	Vanguard Investments Australia Ltd.	BUY	1.60	Ordinary	7,246	7,246
31-May-18	Vanguard Investments Australia Ltd.	BUY	1.59	Ordinary	15,764	15,764
4-Jun-18	Vanguard Investments Australia Ltd.	BUY	1.58	Ordinary	47,949	47,949
4-Jun-18	Vanguard Investments Australia Ltd.	BUY	1.58	Ordinary	259,492	259,492
4-Jun-18	Vanguard Investments Australia Ltd.	BUY	1.58	Ordinary	12,745	12,745
6-Jun-18	Vanguard Investments Australia Ltd.	BUY	1.60	Ordinary	28,984	28,984
8-Jun-18	Vanguard Investments Australia Ltd.	BUY	1.59	Ordinary	15,764	15,764
14-Jun-18	Vanguard Investments Australia Ltd.	BUY	1.57	Ordinary	22,520	22,520
15-Jun-18	Vanguard Investments Australia Ltd.	SELL	1.58	Ordinary	(96,239)	(96,239)
25-Jun-18	Vanguard Investments Australia Ltd.	BUY	1.64	Ordinary	10,196	10,196
26-Jun-18	Vanguard Investments Australia Ltd.	SELL	1.66	Ordinary	(20,092)	(20,092)
28-Jun-18	Vanguard Investments Australia Ltd.	BUY	1.62	Ordinary	224,874	224,874
29-Jun-18	Vanguard Investments Australia Ltd.	BUY	1.65	Ordinary	14,720	14,720
29-Jun-18	Vanguard Investments Australia Ltd.	SELL	1.65	Ordinary	(95,210)	(95,210)
5-Jul-18	Vanguard Investments Australia Ltd.	BUY	1.71	Ordinary	7,360	7,360
6-Jul-18	Vanguard Investments Australia Ltd.	BUY	1.72	Ordinary	14,720	14,720
6-Jul-18	Vanguard Investments Australia Ltd.	BUY	1.72	Ordinary	19,557	19,557
9-Jul-18	Vanguard Investments Australia Ltd.	BUY	1.72	Ordinary	7,578	7,578
12-Jul-18	Vanguard Investments Australia Ltd.	SELL	1.73	Ordinary	(137,139)	(137,139)
16-Jul-18	Vanguard Investments Australia Ltd.	BUY	1.72	Ordinary	14,720	14,720

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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-Jul-18	Vanguard Investments Australia Ltd.	BUY	1.72	Ordinary	13,038	13,038
18-Jul-18	Vanguard Investments Australia Ltd.	BUY	1.72	Ordinary	14,720	14,720
20-Jul-18	Vanguard Investments Australia Ltd.	SELL	1.71	Ordinary	(17,703)	(17,703)
20-Jul-18	Vanguard Investments Australia Ltd.	BUY	1.71	Ordinary	22,176	22,176
23-Jul-18	Vanguard Investments Australia Ltd.	BUY	1.70	Ordinary	7,578	7,578
26-Jul-18	Vanguard Investments Australia Ltd.	BUY	1.72	Ordinary	14,720	14,720
2-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.72	Ordinary	10,104	10,104
2-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.72	Ordinary	18,144	18,144
3-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.72	Ordinary	29,440	29,440
9-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.73	Ordinary	14,720	14,720
10-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.72	Ordinary	141,677	141,677
13-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.71	Ordinary	1,232	1,232
13-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.71	Ordinary	5,868	5,868
13-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.72	Ordinary	50,843	50,843
13-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.72	Ordinary	10,104	10,104
14-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.73	Ordinary	164,972	164,972
15-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.75	Ordinary	14,720	14,720
15-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.75	Ordinary	11,286	11,286
20-Aug-18	Vanguard Investments Australia Ltd.	SELL	1.78	Ordinary	(11,607)	(11,607)
21-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.78	Ordinary	18,810	18,810
23-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.76	Ordinary	16,732	16,732
29-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.71	Ordinary	18,568	18,568
29-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.71	Ordinary	56,983	56,983
30-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.69	Ordinary	8,610	8,610
31-Aug-18	Vanguard Investments Australia Ltd.	BUY	1.70	Ordinary	8,610	8,610
4-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.66	Ordinary	13,566	13,566
4-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.66	Ordinary	32,014	32,014
4-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.66	Ordinary	35,142	35,142
4-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.66	Ordinary	79,523	79,523
4-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.66	Ordinary	412,961	412,961
4-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.66	Ordinary	172,707	172,707
4-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.66	Ordinary	172,993	172,993
4-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.66	Ordinary	296,106	296,106
4-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.70	Ordinary	16,732	16,732
4-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.66	Ordinary	4,242,891	4,242,891
4-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.66	Ordinary	59,576	59,576
4-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.70	Ordinary	22,165	22,165
4-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.66	Ordinary	779,933	779,933
10-Sep-18	Vanguard Investments Australia Ltd.	SELL	1.67	Ordinary	(60,000)	(60,000)
10-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.67	Ordinary	16,760	16,760
10-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.67	Ordinary	33,520	33,520
10-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.67	Ordinary	19,200	19,200
13-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.71	Ordinary	12,420	12,420
17-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.73	Ordinary	19,987	19,987
18-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.74	Ordinary	8,790	8,790
19-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.74	Ordinary	16,758	16,758
21-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.70	Ordinary	11,976	11,976
21-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.70	Ordinary	206,646	206,646
26-Sep-18	Vanguard Investments Australia Ltd.	SELL	1.66	Ordinary	(15,061)	(15,061)
26-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.66	Ordinary	17,716	17,716
26-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.66	Ordinary	12,066	12,066
27-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.65	Ordinary	53,178	53,178
27-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.65	Ordinary	100,078	100,078
27-Sep-18	Vanguard Investments Australia Ltd.	BUY	1.66	Ordinary	154,847	154,847
28-Sep-18	Vanguard Investments Australia Ltd.	SELL	1.67	Ordinary	(88,423)	(88,423)
28-Sep-18	Vanguard Investments Australia Ltd.	SELL	1.67	Ordinary	(8,820)	(8,820)
1-Oct-18	Vanguard Investments Australia Ltd.	BUY	1.65	Ordinary	17,523	17,523
3-Oct-18	Vanguard Investments Australia Ltd.	BUY	1.66	Ordinary	35,316	35,316
4-Oct-18	Vanguard Investments Australia Ltd.	BUY	1.65	Ordinary	17,658	17,658
4-Oct-18	Vanguard Investments Australia Ltd.	SELL	1.64	Ordinary	(197,348)	(197,348)
8-Oct-18	Vanguard Investments Australia Ltd.	BUY	1.65	Ordinary	8,820	8,820
8-Oct-18	Vanguard Investments Australia Ltd.	BUY	1.65	Ordinary	18,756	18,756
11-Oct-18	Vanguard Investments Australia Ltd.	BUY	1.63	Ordinary	22,560	22,560
15-Oct-18	Vanguard Investments Australia Ltd.	BUY	1.65	Ordinary	26,199	26,199
17-Oct-18	Vanguard Investments Australia Ltd.	BUY	1.68	Ordinary	30,124	30,124
23-Oct-18	Vanguard Investments Australia Ltd.	BUY	1.70	Ordinary	8,610	8,610
24-Oct-18	Vanguard Investments Australia Ltd.	SELL	1.72	Ordinary	(11,410)	(11,410)
24-Oct-18	Vanguard Investments Australia Ltd.	BUY	1.72	Ordinary	19,608	19,608

Annexure 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
25-Oct-18	Vanguard Investments Australia Ltd.	BUY	1.70	Ordinary	17,566	17,566
25-Oct-18	Vanguard Investments Australia Ltd.	BUY	1.70	Ordinary	5,740	5,740
25-Oct-18	Vanguard Investments Australia Ltd.	BUY	1.70	Ordinary	24,094	24,094
31-Oct-18	Vanguard Investments Australia Ltd.	SELL	1.71	Ordinary	(43,915)	(43,915)
31-Oct-18	Vanguard Investments Australia Ltd.	BUY	1.71	Ordinary	24,144	24,144
31-Oct-18	Vanguard Investments Australia Ltd.	BUY	1.71	Ordinary	4,527	4,527
1-Nov-18	Vanguard Investments Australia Ltd.	BUY	1.71	Ordinary	87,806	87,806
1-Nov-18	Vanguard Investments Australia Ltd.	BUY	1.71	Ordinary	3,018	3,018
2-Nov-18	Vanguard Investments Australia Ltd.	BUY	1.68	Ordinary	17,566	17,566
2-Nov-18	Vanguard Investments Australia Ltd.	BUY	1.68	Ordinary	26,349	26,349
2-Nov-18	Vanguard Investments Australia Ltd.	BUY	1.68	Ordinary	20,748	20,748
9-Nov-18	Vanguard Investments Australia Ltd.	BUY	1.73	Ordinary	17,568	17,568
12-Nov-18	Vanguard Investments Australia Ltd.	BUY	1.75	Ordinary	21,892	21,892
13-Nov-18	Vanguard Investments Australia Ltd.	BUY	1.76	Ordinary	8,655	8,655
14-Nov-18	Vanguard Investments Australia Ltd.	SELL	1.75	Ordinary	(191,455)	(191,455)
14-Nov-18	Vanguard Investments Australia Ltd.	SELL	1.75	Ordinary	(47,414)	(47,414)
15-Nov-18	Vanguard Investments Australia Ltd.	SELL	1.72	Ordinary	(10,991)	(10,991)
19-Nov-18	Vanguard Investments Australia Ltd.	BUY	1.73	Ordinary	98,764	98,764
20-Nov-18	Vanguard Investments Australia Ltd.	SELL	1.73	Ordinary	(81,984)	(81,984)
22-Nov-18	Vanguard Investments Australia Ltd.	BUY	1.72	Ordinary	21,210	21,210
27-Nov-18	Vanguard Investments Australia Ltd.	BUY	1.73	Ordinary	8,673	8,673
29-Nov-18	Vanguard Investments Australia Ltd.	SELL	1.73	Ordinary	(70,326)	(70,326)
29-Nov-18	Vanguard Investments Australia Ltd.	BUY	1.73	Ordinary	17,644	17,644
30-Nov-18	Vanguard Investments Australia Ltd.	BUY	1.74	Ordinary	17,508	17,508
3-Dec-18	Vanguard Investments Australia Ltd.	BUY	1.75	Ordinary	20,852	20,852
6-Dec-18	Vanguard Investments Australia Ltd.	BUY	1.76	Ordinary	17,528	17,528
6-Dec-18	Vanguard Investments Australia Ltd.	BUY	1.76	Ordinary	17,900	17,900
11-Dec-18	Vanguard Investments Australia Ltd.	BUY	1.77	Ordinary	20,268	20,268
11-Dec-18	Vanguard Investments Australia Ltd.	BUY	1.77	Ordinary	33,780	33,780
12-Dec-18	Vanguard Investments Australia Ltd.	BUY	1.79	Ordinary	455,300	455,300
14-Dec-18	Vanguard Investments Australia Ltd.	SELL	1.75	Ordinary	(10,134)	(10,134)
18-Dec-18	Vanguard Investments Australia Ltd.	BUY	1.76	Ordinary	26,862	26,862
20-Dec-18	Vanguard Investments Australia Ltd.	BUY	1.83	Ordinary	17,908	17,908
20-Dec-18	Vanguard Investments Australia Ltd.	BUY	1.82	Ordinary	221,145	221,145
21-Dec-18	Vanguard Investments Australia Ltd.	BUY	1.80	Ordinary	116,743	116,743
21-Dec-18	Vanguard Investments Australia Ltd.	BUY	1.80	Ordinary	21,478	21,478
21-Dec-18	Vanguard Investments Australia Ltd.	BUY	1.80	Ordinary	72,574	72,574
21-Dec-18	Vanguard Investments Australia Ltd.	BUY	1.81	Ordinary	500,400	500,400

This is Annexure A of 8 pages referred to in Form 604, Notice of change of interests of substantial holder.

Signature

Date 12/28/18 28-Dec-18