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Form 603

Corporations Act 2001 Section 671B

Notice of initial substantial holder

To Company Name/Scheme	Ampol Limited
ACN/ARSN	004 201 307
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	16 December 2022

2. Details of voting power

The total number of votes attached to all the voting shares in the company or voting interests in the scheme that the substantial holder or an associate (2) had a relevant interest (3) in on the date the substantial holder became a substantial holder are as follows:

Class of securities (4)	Number of securities	Person's votes (5)	Voting power (6)		
Ordinary	12,110,687 12,110,687		5.082%		
Note: Vanguard Group holds 10 shares of Ampol Limited ADR.					

3. Details of relevant interests

The nature of the relevant interest the substantial holder or an associate had in the following voting securities on the date the substantial holder became a substantial holder are as follows:

Holder of relevant interest	Nature of relevant interest (7)	Class and number of securities
Vanguard Group	Vanguard Group is the manager of various Mutual funds	Ordinary - 12,110,687
	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.	

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	Registered holder of	Person entitled to be	Class and
interest	securities	registered as holder (8)	number of
			securities
Vanguard Group	Brown Brothers Harriman	Various funds and other accounts of Vanguard Group	Ordinary – 696,352
Vanguard Group	BNY Mellon	Various funds and other accounts of Vanguard Group	Ordinary – 887,551
Vanguard Group	JP Morgan Chase Bank, N.A.	Various funds and other accounts of Vanguard Group	Ordinary – 8,441,422
Vanguard Group	State Street Bank and Trust Company	Various funds and other accounts of Vanguard Group	Ordinary – 2,085,362

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 C	Compliance Manager	
sian here	HUADIN SCHOOL	date	21 December 2022	

DIRECTIONS

- (1) If there are a number of substantial holders with similar or related interests (eg. a corporation and its related corporations, or the manager and trustee of an equity trust), the names could be included in an annexure to the form. If the relevant interests of a group of persons are essentially similar, they may be referred to throughout the form as a specifically named group if the membership of each group, with the names and addresses of members is clearly set out in paragraph 7 of the form.
- (2) See the definition of "associate" in section 9 of the Corporations Act 2001.
- (3) See the definition of "relevant interest" in sections 608 and 671B(7) of the Corporations Act 2001.
- (4) The voting shares of a company constitute one class unless divided into separate classes.
- (5) The total number of votes attached to all the voting shares in the company or voting interests in the scheme (if any) that the person or an Associate has a relevant interest in.
- (6) The person's votes divided by the total votes in the body corporate or scheme multiplied by 100.
- (7) Include details of:
 - (a) any relevant agreement or other circumstances by which the relevant interest was acquired. If subsection 671B(4) applies, a copy of any document setting out the terms of any relevant agreement, and a statement by the person giving full and accurate details of any contract, scheme or arrangement, must accompany this form, together with a written statement certifying this contract, scheme or arrangement; and
 - (b) any qualification of the power of a person to exercise, control the exercise of, or influence the exercise of, the voting powers or disposal of the securities to which the relevant interest relates (indicating clearly the particular securities to which the qualification applies).

See the definition of "relevant agreement" in section 9 of the Corporations Act 2001.

- (8) If the substantial holder is unable to determine the identity of the person (eg. if the relevant interest arises because of an option) write "unknown".
- (9) Details of the consideration must include any and all benefits, moneys and other, that any person from whom a relevant interest has acquired has, or may, become entitled to receive in relation to that acquisition. Details must be included even if the benefit is conditional on the happening or not of a contingency. Details must be included of any benefit paid on behalf of the substantial holder of its associate in relation to the acquisitions, even if they are not paid directly to the person from whom the relevant interest was acquired.

To Company ACN/ARSN

Ampol Limited 004 201 307

Substantial Holder Name ACN/ARSN

Vanguard Group

N/A

Date of change 19-Aug-2022 The Vanguard Group 22-Aug-2022 The Vanguard Group 23-Aug-2022 The Vanguard Group 24-Aug-2022 The Vanguard Group 29-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 3-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-202		Nature of	given in relation	l	1	
19-Aug-2022 The Vanguard Group 22-Aug-2022 The Vanguard Group 23-Aug-2022 The Vanguard Group 29-Aug-2022 The Vanguard Group 29-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 3-Sep-2022 The Vanguard Gro		itataic oi	given in relation		Number of securities	Person's votes
22-Aug-2022 The Vanguard Group 23-Aug-2022 The Vanguard Group 29-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 3-Sep-2022 The Vanguard Group	nt interest changed	Change(6)	to change(7)	Class	affected	affected
23-Aug-2022 The Vanguard Group 29-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 3-Sep-2022 The Vanguard Group 3	, Inc.	BUY	34.05	Ordinary	206	206
24-Aug-2022 The Vanguard Group 29-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 3-Sep-2022 The Vanguard Group 3-	, Inc.	BUY	34.86	Ordinary	2,144	2,144
29-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 3-Sep-2022 The Vanguard Group 3-S	, Inc.	BUY	34.18	Ordinary	1,340	1,340
29-Aug-2022 The Vanguard Group 31-Aug-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 3-Sep-2022 The Vanguard Group 3-Se	, Inc.	BUY	34.68	Ordinary	1,275	1,275
31-Aug-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 3-Sep-2022 The Vanguard Group 3-Sep	, Inc.	BUY	34.88	Ordinary	1,340	1,340
31-Aug-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 3-Sep-2022 The Vanguard Group 5-Sep-2022 The Vanguard Group 5-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Van	, Inc.	BUY	34.88	Ordinary	408	408
1-Sep-2022 The Vanguard Group 1-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 3-Sep-2022 The Vanguard Group 5-Sep-2022 The Vanguard Group 5-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 24-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	, Inc.	BUY	34.58	Ordinary	969	969
1-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 3-Sep-2022 The Vanguard Group 5-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 24-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	, Inc.	BUY	34.58	Ordinary	11,358	11,358
1-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 3-Sep-2022 The Vanguard Group 5-Sep-2022 The Vanguard Group 5-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 8-Sep-2022 The Vanguard Group 9-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 24-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group	•	BUY	33.67	Ordinary	419	419
2-Sep-2022 The Vanguard Group 2-Sep-2022 The Vanguard Group 3-Sep-2022 The Vanguard Group 5-Sep-2022 The Vanguard Group 5-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 8-Sep-2022 The Vanguard Group 9-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 24-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group		BUY	33.67	Ordinary	920	920
2-Sep-2022 The Vanguard Group 3-Sep-2022 The Vanguard Group 5-Sep-2022 The Vanguard Group 5-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 8-Sep-2022 The Vanguard Group 9-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 24-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group	·	BUY	33.71	Ordinary	544	544
2-Sep-2022 The Vanguard Group 5-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 8-Sep-2022 The Vanguard Group 9-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group		SELL	31.98	Ordinary	(86)	(86
2-Sep-2022 The Vanguard Group 5-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 8-Sep-2022 The Vanguard Group 9-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group		BUY	31.97	Ordinary	1,918	1,918
5-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 8-Sep-2022 The Vanguard Group 9-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	•	BUY	31.97	Ordinary	1,370	1,370
5-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 8-Sep-2022 The Vanguard Group 9-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 24-Sep-2022 The Vanguard Group 25-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group	•	BUY	31.97	Ordinary	816	816
6-Sep-2022 The Vanguard Group 6-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 8-Sep-2022 The Vanguard Group 9-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 24-Sep-2022 The Vanguard Group 24-Sep-2022 The Vanguard Group 25-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group	•	BUY	32.87	Ordinary	8,969	8,969
6-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 8-Sep-2022 The Vanguard Group 9-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group		BUY	32.87	Ordinary	10,763	10,763
6-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 8-Sep-2022 The Vanguard Group 9-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group	•	BUY	33.02	Ordinary	88	88
6-Sep-2022 The Vanguard Group 7-Sep-2022 The Vanguard Group 8-Sep-2022 The Vanguard Group 9-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	•	BUY	33.30	Ordinary	2,387	2,387
7-Sep-2022 The Vanguard Group 9-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group		BUY	33.30 32.77	Ordinary Ordinary	2,864	2,864 272
7-Sep-2022 The Vanguard Group 9-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	•	BUY	32.77	Ordinary	1,700	1,700
8-Sep-2022 The Vanguard Group 9-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	•	BUY	32.27	Ordinary	3,400	3,400
9-Sep-2022 The Vanguard Group 12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group		BUY	32.76	Ordinary	180	180
12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	·	BUY	33.13	Ordinary	1,370	1,370
12-Sep-2022 The Vanguard Group 13-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	•	BUY	33.07	Ordinary	2,192	2,192
13-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	•	BUY	33.07	Ordinary	1,615	1,615
14-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group		BUY	32.97	Ordinary	1,445	1,445
16-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group		SELL	32.09	Ordinary	(11,222)	(11,222)
16-Sep-2022 The Vanguard Group 16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	•	BUY	31.28	Ordinary	336	336
16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	•	BUY	31.28	Ordinary	246	246
16-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	•	BUY	31.28	Ordinary	13,592	13,592
19-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group		BUY	31.32	Ordinary	272	272
19-Sep-2022 The Vanguard Group 19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group		BUY	31.47	Ordinary	1,350	1,350
19-Sep-2022 The Vanguard Group 21-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	, Inc.	BUY	31.47	Ordinary	1,350	1,350
21-Sep-2022 The Vanguard Group 22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	, Inc.	SELL	31.47	Ordinary	(1,350)	(1,350)
22-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	, Inc.	BUY	31.47	Ordinary	274	274
23-Sep-2022 The Vanguard Group 23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group	, Inc.	BUY	29.78	Ordinary	1,704	1,704
23-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 30-Sep-2022 The Vanguard Group	, Inc.	BUY	29.67	Ordinary	411	411
26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 30-Sep-2022 The Vanguard Group	, Inc.	BUY	29.59	Ordinary	884	884
26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 30-Sep-2022 The Vanguard Group 30-Sep-2022 The Vanguard Group	, Inc.	BUY	30.25	Ordinary	960	960
26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 30-Sep-2022 The Vanguard Group		BUY	28.39	Ordinary	418	418
26-Sep-2022 The Vanguard Group 26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 30-Sep-2022 The Vanguard Group	, Inc.	BUY	28.39	Ordinary	375	375
26-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 30-Sep-2022 The Vanguard Group		BUY	28.39	Ordinary	3,760	3,760
27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 30-Sep-2022 The Vanguard Group	, Inc.	BUY	28.41	Ordinary	2,272	2,272
27-Sep-2022 The Vanguard Group 27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 30-Sep-2022 The Vanguard Group	•	BUY	28.41	Ordinary	1,350	1,350
27-Sep-2022 The Vanguard Group 28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 30-Sep-2022 The Vanguard Group	•	BUY	28.37	Ordinary	97	97
28-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 30-Sep-2022 The Vanguard Group		BUY	28.22	Ordinary	872	872
29-Sep-2022 The Vanguard Group 29-Sep-2022 The Vanguard Group 30-Sep-2022 The Vanguard Group		BUY	28.22	Ordinary	270	270
29-Sep-2022 The Vanguard Group 30-Sep-2022 The Vanguard Group	•	BUY	28.16	Ordinary	21,569	21,569
30-Sep-2022 The Vanguard Group	•	BUY	28.67	Ordinary	896	896
		BUY	28.67	Ordinary	548	548
3-Oct-2022 The Vanguard Group		BUY	28.92	Ordinary	548	548
2 0 1 2000 = 1 1 1 -		BUY	29.57	Ordinary	884	884
3-Oct-2022 The Vanguard Group		BUY	29.57	Ordinary	1,350	1,350
4-Oct-2022 The Vanguard Group	•	BUY	29.72	Ordinary	884	884
4-Oct-2022 The Vanguard Group		BUY	29.72	Ordinary	884	884
4-Oct-2022 The Vanguard Group		BUY	29.72	Ordinary	1,326	1,326
4-Oct-2022 The Vanguard Group		BUY	29.72	Ordinary	920	920
4-Oct-2022 The Vanguard Group 5-Oct-2022 The Vanguard Group		BUY	29.72 30.09	Ordinary Ordinary	274	274 114

Date of change	Person whose relevant interest changed	Nature of Change(6)	Consideration given in relation to change(7)	Class	Number of securities	Person's votes
•	The Vanguard Group, Inc.	BUY	30.16	Ordinary	16,329	16,329
	The Vanguard Group, Inc.	BUY	30.10	Ordinary	418	418
	The Vanguard Group, Inc.	BUY	29.93	Ordinary	411	411
	The Vanguard Group, Inc.	BUY	30.55	Ordinary	116	116
	The Vanguard Group, Inc.	BUY	30.06	Ordinary	548	548
	The Vanguard Group, Inc.	BUY	30.06	Ordinary	274	274
	The Vanguard Group, Inc.	SELL	30.38	Ordinary	(348)	(348)
	The Vanguard Group, Inc.	BUY	30.37	Ordinary	852	852
	The Vanguard Group, Inc.	BUY	30.37	Ordinary	411	411
12-Oct-2022	The Vanguard Group, Inc.	BUY	29.91	Ordinary	95	95
12-Oct-2022	The Vanguard Group, Inc.	BUY	29.94	Ordinary	2,264	2,264
13-Oct-2022	The Vanguard Group, Inc.	SELL	29.78	Ordinary	(12,922)	(12,922)
14-Oct-2022	The Vanguard Group, Inc.	BUY	30.45	Ordinary	1,200	1,200
17-Oct-2022	The Vanguard Group, Inc.	BUY	30.40	Ordinary	900	900
17-Oct-2022	The Vanguard Group, Inc.	BUY	30.40	Ordinary	411	411
18-Oct-2022	The Vanguard Group, Inc.	BUY	30.70	Ordinary	411	411
20-Oct-2022	The Vanguard Group, Inc.	BUY	31.00	Ordinary	2,264	2,264
20-Oct-2022	The Vanguard Group, Inc.	BUY	31.00	Ordinary	274	274
	The Vanguard Group, Inc.	BUY	31.22	Ordinary	1,105	1,105
	The Vanguard Group, Inc.	BUY	31.22	Ordinary	884	884
21-Oct-2022	The Vanguard Group, Inc.	BUY	31.22	Ordinary	1,698	1,698
21-Oct-2022	The Vanguard Group, Inc.	BUY	31.22	Ordinary	1,981	1,981
	The Vanguard Group, Inc.	BUY	31.22	Ordinary	1,610	1,610
	The Vanguard Group, Inc.	BUY	30.76	Ordinary	22,651	22,651
21-Oct-2022	The Vanguard Group, Inc.	BUY	31.22	Ordinary	274	274
25-Oct-2022	The Vanguard Group, Inc.	BUY	27.58	Ordinary	864	864
	The Vanguard Group, Inc.	BUY	27.58	Ordinary	411	411
	The Vanguard Group, Inc.	SELL	27.71	Ordinary	(1,123)	(1,123)
	The Vanguard Group, Inc.	BUY	27.59	Ordinary	2,376	2,376
	The Vanguard Group, Inc.	BUY	27.59	Ordinary	2,547	2,547
	The Vanguard Group, Inc.	BUY	27.59	Ordinary	1,800	1,800
	The Vanguard Group, Inc.	BUY	27.59	Ordinary	822	822
	The Vanguard Group, Inc.	BUY	27.59	Ordinary	274	274
	The Vanguard Group, Inc.	SELL	27.58	Ordinary	(2,057)	(2,057)
	The Vanguard Group, Inc.	BUY	27.27	Ordinary	1,698	1,698
	The Vanguard Group, Inc.	BUY	27.85	Ordinary	230	230
	The Vanguard Group, Inc.	BUY	27.92	Ordinary	3,679	3,679
	The Vanguard Group, Inc.	BUY	27.92	Ordinary	274	274
	The Vanguard Group, Inc.	BUY	27.92	Ordinary	959	959
	The Vanguard Group, Inc.	BUY	27.68	Ordinary	2,700	2,700
	The Vanguard Group, Inc.	BUY	27.68	Ordinary	274	274
	The Vanguard Group, Inc.	BUY	28.09	Ordinary	89	89
	The Vanguard Group, Inc.	BUY	28.48	Ordinary	1,764	1,764
	The Vanguard Group, Inc.	BUY	28.48	'	1,981	1,981
	The Vanguard Group, Inc.	BUY	28.48	Ordinary	1,698	1,698
	The Vanguard Group, Inc.	BUY	28.48	Ordinary	411	411
	The Vanguard Group, Inc.	BUY	28.00		342	342
	The Vanguard Group, Inc.	BUY	28.09	Ordinary	16,598	16,598
	The Vanguard Group, Inc.	BUY	27.83	Ordinary	228	228
	The Vanguard Group, Inc.	BUY	28.35	Ordinary	1,415	1,415
	The Vanguard Group, Inc.	BUY	28.35		1,132	1,132
	The Vanguard Group, Inc.	BUY	28.35		1,698	1,698
	The Vanguard Group, Inc.	BUY	28.35	Ordinary	2,610	2,610
	The Vanguard Group, Inc.	BUY	27.98		1,152	1,152
	The Vanguard Group, Inc.	BUY	28.23	Ordinary	411	411
	The Vanguard Group, Inc.	BUY	27.64		274	274
	The Vanguard Group, Inc.	BUY	28.03	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' 	107	107
	The Vanguard Group, Inc.	BUY	28.10	· ·	540	540
	The Vanguard Group, Inc.	BUY	28.10	Ordinary	274	274
	The Vanguard Group, Inc.	SELL	27.88	Ordinary	(690)	(690)
	The Vanguard Group, Inc.	BUY	28.82	Ordinary	228	228
	The Vanguard Group, Inc.	BUY	28.59		12,173	12,173
	The Vanguard Group, Inc.	BUY	28.98	 	274	274
	The Vanguard Group, Inc.	BUY	28.98	Ordinary	685	685
	The Vanguard Group, Inc.	BUY	28.29	Ordinary	92	92
	The Vanguard Group, Inc.	BUY	28.56		1,415	1,415
	The Vanguard Group, Inc.	BUY	28.56		411	411
22-1107-2022						

		Nature of	Consideration given in relation		Number of securities	Person's votes
Date of change	Person whose relevant interest changed	Change(6)	to change(7)	Class	affected	affected
30-Nov-2022	The Vanguard Group, Inc.	BUY	28.59	Ordinary	228	228
1-Dec-2022	The Vanguard Group, Inc.	BUY	28.48	Ordinary	17,322	17,322
1-Dec-2022	The Vanguard Group, Inc.	SELL	28.27	Ordinary	(920)	(920)
6-Dec-2022	The Vanguard Group, Inc.	BUY	27.33	Ordinary	411	411
6-Dec-2022	The Vanguard Group, Inc.	BUY	27.33	Ordinary	685	685
8-Dec-2022	The Vanguard Group, Inc.	BUY	26.75	Ordinary	274	274
8-Dec-2022	The Vanguard Group, Inc.	BUY	26.75	Ordinary	274	274
13-Dec-2022	The Vanguard Group, Inc.	BUY	27.50	Ordinary	224	224
13-Dec-2022	The Vanguard Group, Inc.	BUY	27.50	Ordinary	95	95
13-Dec-2022	The Vanguard Group, Inc.	BUY	27.56	Ordinary	548	548
16-Dec-2022	The Vanguard Group, Inc.	BUY	28.58	Ordinary	354	354
16-Dec-2022	The Vanguard Group, Inc.	BUY	28.58	Ordinary	116	116
16-Dec-2022	The Vanguard Group, Inc.	BUY	28.57	Ordinary	543	543
19-Aug-2022	Vanguard Investments Australia Ltd.	BUY	34.14	Ordinary	2,880	2,880
24-Aug-2022	Vanguard Investments Australia Ltd.	BUY	34.57	Ordinary	2,880	2,880
31-Aug-2022	Vanguard Investments Australia Ltd.	BUY	34.58	Ordinary	3,840	3,840
1-Sep-2022	Vanguard Investments Australia Ltd.	BUY	33.67	Ordinary	970	970
5-Sep-2022	Vanguard Investments Australia Ltd.	BUY	32.98	Ordinary	4,825	4,825
8-Sep-2022	Vanguard Investments Australia Ltd.	BUY	32.76	Ordinary	1,365	1,365
9-Sep-2022	Vanguard Investments Australia Ltd.	BUY	32.80	Ordinary	4,875	4,875
12-Sep-2022	Vanguard Investments Australia Ltd.	BUY	32.88	Ordinary	970	970
16-Sep-2022	Vanguard Investments Australia Ltd.	BUY	31.28	Ordinary	43,241	43,241
19-Sep-2022	Vanguard Investments Australia Ltd.	BUY	31.18	Ordinary	985	985
20-Sep-2022	Vanguard Investments Australia Ltd.	BUY	31.11	Ordinary	985	985
· · · · · · · · · · · · · · · · · · ·	Vanguard Investments Australia Ltd.	BUY	29.59	Ordinary	1,576	1,576
23-Sep-2022	· ·	BUY	29.59	Ordinary	3,940	3,940
27-Sep-2022	Vanguard Investments Australia Ltd.	BUY	28.37	Ordinary	1,773	1,773
	Vanguard Investments Australia Ltd.	BUY	28.54	Ordinary	1,773	1,773
	Vanguard Investments Australia Ltd.	SELL	28.75	Ordinary	(5,488)	(5,488)
3-Oct-2022	Vanguard Investments Australia Ltd.	BUY	29.16	Ordinary	1,737	1,737
3-Oct-2022	•	BUY	29.16	Ordinary	3,860	3,860
	Vanguard Investments Australia Ltd.	BUY	30.09	Ordinary	1,152	1,152
11-Oct-2022	•	BUY	30.38	Ordinary	1,330	1,330
17-Oct-2022	Vanguard Investments Australia Ltd.	BUY	30.30	Ordinary	945	945
18-Oct-2022	Vanguard Investments Australia Ltd.	BUY	30.86	Ordinary	3,760	3,760
25-Oct-2022	Vanguard Investments Australia Ltd.	BUY	27.35	Ordinary	4,114	4,114
26-Oct-2022	Vanguard Investments Australia Ltd.	BUY	27.31	Ordinary	1,122	1,122
31-Oct-2022	Vanguard Investments Australia Ltd.	BUY	27.23	Ordinary	2,820	2,820
2-Nov-2022	Vanguard Investments Australia Ltd.	BUY	27.61	Ordinary	1,323	1,323
14-Nov-2022	Vanguard Investments Australia Ltd.	BUY	27.75	Ordinary	3,800	3,800
21-Nov-2022	· ·	SELL	28.25	Ordinary	(5,670)	(5,670)
24-Nov-2022	Vanguard Investments Australia Ltd.	BUY	28.40	Ordinary	2,850	2,850
29-Nov-2022		BUY	28.51	Ordinary	2,865	2,865
5-Dec-2022	<u> </u>	BUY	28.06	Ordinary	4,800	4,800
	Vanguard Investments Australia Ltd.	BUY	27.25	Ordinary	1,920	1,920
13-Dec-2022	•	BUY	27.50	Ordinary	2,880	2,880
	Vanguard Investments Australia Ltd.	BUY	27.50	Ordinary	1,920	1,920
	Vanguard Investments Australia Ltd.	SELL	27.66	Ordinary	(5,568)	(5,568)
	Vanguard Investments Australia Ltd.	BUY	28.57	Ordinary	72,680	72,680
	Vanguard Investments Australia Ltd.	BUY	28.58	Ordinary	376,340	376,340

This is Annexure A of 3 pages referred to in Form 603, Notice of initial substantial holder.
Signature: Topon form
Name: Shawn Acker
Capacity: Compliance Manager
Date: 21 December 2022