

Disclosure of beginning to have substantial holding

Section 276, Financial Markets Conduct Act 2013

To: New Zealand Stock Exchange
and
To: Fisher & Paykel Healthcare Corporation Limited

Date this disclosure made: 14 March 2019

Date on which substantial holding began: 12 March 2019

Substantial product holder(s) giving disclosure

Full name(s): BlackRock, Inc. and related bodies corporate

Summary of substantial holding

Class of quoted voting products: Ordinary Shares

Summary for: Product holders listed in Appendix A

For this disclosure,—

- (a) total number held in class: 28,690,165 Ord
- (b) total in class: 573,684,725
- (c) total percentage held in class: 5.001%

Details of relevant interests

Details for: Product holders listed in Appendix A

Nature of relevant interest(s): The power to control the acquisition or disposal of the quoted voting product and/or the exercise of a right to vote attached to the quoted voting product, arising only from the powers of investment contained in each case under investment management agreements appointing each entity as investment manager of funds or separate accounts (i.e. entity currently exercising investment discretion on behalf of the relevant funds or separate accounts). No relevant agreement document needs to be attached under Regulation 139.

For that relevant interest,—

- (a) number held in class: Refer to Appendix A
- (b) percentage held in class: Refer to Appendix A
- (c) current registered holder(s): Refer to Appendix A
- (d) registered holder(s) once transfers are registered: Not applicable

For a derivative relevant interest, also—

- (a) type of derivative: Contract for difference

(b) details of derivative:

- Notional number of underlying shares: 0
- These derivatives are all cash-settled.
- Derivatives were acquired and/or disposed of as follows: Refer to Appendix B

(c) parties to the derivative: Refer to Appendix C

(d) if the substantial product holder is not a party to the derivative, the nature of the relevant interest in the derivative: The power to control the acquisition or disposal of the derivative – Refer to Appendix C

Details of transactions and events giving rise to substantial holding

Details of the transactions or other events requiring disclosure: Refer to Appendix B

Additional information

Address(es) of substantial product holder(s): Refer to Appendix A

Contact details: Bradley Taylor, Tel +1-302-797-2361, Email:
bradley.taylor@blackrock.com

Nature of connection between substantial product holders: Refer to Appendix A

Name of any other person believed to have given, or believed to be required to give, a disclosure under the Financial Markets Conduct Act 2013 in relation to the financial products to which this disclosure relates: Not applicable.

Certification

I, Bradley Taylor, certify that, to the best of my knowledge and belief, the information contained in this disclosure is correct and that I am duly authorised to make this disclosure by all persons for whom it is made.

Appendix A

| Holder of Relevant Interests | Total Held in Class | | | | Nature of Association | Address |
|---|---------------------|-----|----------------------|--------|------------------------------|---|
| | Class | CCY | Number of Securities | % | | |
| BlackRock (Netherlands) B.V. | ORD | NZD | 112,701 | 0.020% | subsidiary of BlackRock Inc. | Rembrandt Tower, 17th floor Amstelplein Amsterdam Netherlands |
| BlackRock (Singapore) Limited | ORD | NZD | 11,141 | 0.002% | subsidiary of BlackRock Inc. | 20 Anson Road #18-01 079912 Singapore |
| BlackRock Advisors (UK) Limited | ORD | NZD | 2,609,141 | 0.455% | subsidiary of BlackRock Inc. | 12 Throgmorton Avenue. London, EC2N 2DL, United Kingdom |
| BlackRock Advisors, LLC | ORD | NZD | 342,152 | 0.060% | subsidiary of BlackRock Inc. | 1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States |
| BlackRock Asset Management Canada Limited | ORD | NZD | 353,534 | 0.062% | subsidiary of BlackRock Inc. | 161 Bay Street, Suite 2500 Toronto, Ontario M5J 2S1 Canada |
| BlackRock Asset Management North Asia Limited | ORD | NZD | 8,700 | 0.002% | subsidiary of BlackRock Inc. | 15/F, 16/F, 17/F Champion Tower & 17/F ICBC Tower, Three Garden Road, Central, Hong Kong |
| BlackRock Financial Management, Inc. | ORD | NZD | 198,475 | 0.035% | subsidiary of BlackRock Inc. | 1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States |
| BlackRock Fund Advisors | ORD | NZD | 9,652,050 | 1.682% | subsidiary of BlackRock Inc. | 400 Howard Street San Francisco, CA, 94105 United States |
| BlackRock Institutional Trust Company, National Association | ORD | NZD | 9,107,021 | 1.587% | subsidiary of BlackRock Inc. | 1225 17th Street, Suite 300, Denver, CO 80202 (Colorado, USA) |
| BlackRock International Limited | ORD | NZD | 230,175 | 0.040% | subsidiary of BlackRock Inc. | Exchange Place One, 1 Semple Street, Edinburgh, EH3 8BL, United Kingdom (Scotland) |
| BlackRock Investment Management (Australia) Limited | ORD | AUD | 1,420,494 | 0.248% | subsidiary of BlackRock Inc. | Level 26, 101 Collins Street Melbourne VIC 3000 Australia (Victoria, Australia) |
| BlackRock Investment Management (Australia) Limited | ORD | NZD | 182,749 | 0.032% | subsidiary of BlackRock Inc. | Level 26, 101 Collins Street Melbourne VIC 3000 Australia (Victoria, Australia) |
| BlackRock Investment Management (UK) Limited | ORD | NZD | 3,441,564 | 0.600% | subsidiary of BlackRock Inc. | 12 Throgmorton Avenue London EC2N 2DL United Kingdom |
| BlackRock Investment Management, LLC | ORD | AUD | 43,243 | 0.008% | subsidiary of BlackRock Inc. | 1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States |
| BlackRock Investment Management, LLC | ORD | NZD | 543,675 | 0.095% | subsidiary of BlackRock Inc. | 1209 Orange Street, Wilmington, New Castle County, Delaware 19801, United States |
| BlackRock Japan Co., Ltd. | ORD | NZD | 433,350 | 0.076% | subsidiary of BlackRock Inc. | Marunouchi Trust Tower Main, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-8217 (Japan) |

| FISHER & PAYKEL HEALTHCARE CORPORATION LIMITED | | | | | | |
|--|---|--|-------|---|--------|-------------------------|
| Transaction Date | Person whose relevant interest changed | Nature of change / Consideration (NZD) | | Class and number of securities affected | | Person's votes affected |
| 13-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13.7 | ORD | 1,106 | 1,106 |
| 13-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13.7 | ORD | 2,766 | 2,766 |
| 13-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13.7 | ORD | 461 | 461 |
| 13-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13.7 | ORD | 1,293 | 1,293 |
| 13-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,460 | 1,460 |
| 13-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,432 | 2,432 |
| 14-Nov-18 | BlackRock Fund Advisors | on mkt buy | 13.46 | ORD | 67,468 | 67,468 |
| 14-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.44 | ORD | -94 | -94 |
| 14-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.44 | ORD | -24 | -24 |
| 14-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.44 | ORD | -23 | -23 |
| 14-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13.45 | ORD | 461 | 461 |
| 14-Nov-18 | BlackRock Advisors (UK) Limited | on mkt sell | 13.45 | ORD | -3,924 | -3,924 |
| 14-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13.45 | ORD | 1,540 | 1,540 |
| 14-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13.45 | ORD | 5,071 | 5,071 |
| 14-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13.45 | ORD | 1,291 | 1,291 |
| 14-Nov-18 | BlackRock Investment Management (UK) Limited | in specie | n/a | ORD | 2,052 | 2,052 |
| 14-Nov-18 | BlackRock Investment Management (UK) Limited | in specie | n/a | ORD | -2,052 | -2,052 |
| 14-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,004 | 2,004 |
| 15-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.27 | ORD | -6,647 | -6,647 |
| 15-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13.4 | ORD | 469 | 469 |
| 15-Nov-18 | BlackRock Advisors (UK) Limited | on mkt sell | 13.4 | ORD | -740 | -740 |
| 15-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13.4 | ORD | 938 | 938 |
| 15-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13.4 | ORD | 1,288 | 1,288 |
| 15-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13.4 | ORD | 938 | 938 |
| 15-Nov-18 | BlackRock (Netherlands) B.V. | on mkt buy | 13.4 | ORD | 425 | 425 |
| 15-Nov-18 | BlackRock Fund Advisors | on mkt buy | 13.4 | ORD | 7,056 | 7,056 |
| 15-Nov-18 | BlackRock Financial Management, Inc. | on mkt sell | 13.4 | ORD | -3,076 | -3,076 |
| 15-Nov-18 | BlackRock Investment Management (Australia) Limited | on mkt buy | 13.34 | ORD | 1,647 | 1,647 |
| 15-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,190 | 2,190 |
| 16-Nov-18 | BlackRock Asset Management North Asia Limited | on mkt buy | 13.22 | ORD | 517 | 517 |
| 16-Nov-18 | BlackRock Financial Management, Inc. | on mkt sell | 13.22 | ORD | -1,724 | -1,724 |
| 16-Nov-18 | BlackRock Investment Management (UK) Limited | on mkt buy | 13.25 | ORD | 734 | 734 |
| 16-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13.2 | ORD | 78 | 78 |
| 16-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,822 | 3,822 |
| 16-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,530 | 2,530 |
| 16-Nov-18 | BlackRock Advisors, LLC | in specie | n/a | ORD | 8,752 | 8,752 |
| 16-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | -8,752 | -8,752 |

| Transaction Date | Person whose relevant interest changed | Nature of change / Consideration (NZD) | | Class and number of securities affected | | Person's votes affected |
|------------------|---|--|-------|---|---------|-------------------------|
| 19-Nov-18 | BlackRock Institutional Trust Company, National Association | in specie | n/a | ORD | -4,314 | -4,314 |
| 19-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 12.97 | ORD | 467 | 467 |
| 19-Nov-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.97 | ORD | -2,644 | -2,644 |
| 19-Nov-18 | BlackRock Fund Advisors | on mkt buy | 12.97 | ORD | 4,416 | 4,416 |
| 19-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,470 | 1,470 |
| 19-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,080 | 3,080 |
| 20-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 12.9 | ORD | 1,289 | 1,289 |
| 20-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 12.9 | ORD | 227 | 227 |
| 20-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,540 | 1,540 |
| 20-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,340 | 3,340 |
| 21-Nov-18 | BlackRock Japan Co., Ltd. | on mkt sell | 12.63 | ORD | -37,362 | -37,362 |
| 21-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.81 | ORD | -162 | -162 |
| 21-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.81 | ORD | -35 | -35 |
| 21-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.81 | ORD | -34 | -34 |
| 21-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,875 | 1,875 |
| 21-Nov-18 | BlackRock Investment Management (UK) Limited | in specie | n/a | ORD | -14,661 | -14,661 |
| 21-Nov-18 | BlackRock Advisors (UK) Limited | in specie | n/a | ORD | -11,554 | -11,554 |
| 21-Nov-18 | BlackRock Advisors (UK) Limited | in specie | n/a | ORD | -6,640 | -6,640 |
| 23-Nov-18 | BlackRock Institutional Trust Company, National Association | in specie | n/a | ORD | -21,590 | -21,590 |
| 26-Nov-18 | BlackRock Advisors (UK) Limited | on mkt sell | 13.3 | ORD | -1,359 | -1,359 |
| 26-Nov-18 | BlackRock Advisors (UK) Limited | on mkt sell | 13.3 | ORD | -1,550 | -1,550 |
| 26-Nov-18 | BlackRock Advisors (UK) Limited | on mkt sell | 13.3 | ORD | -604 | -604 |
| 26-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13.3 | ORD | 149 | 149 |
| 26-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.3 | ORD | 35,539 | 35,539 |
| 26-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,672 | 2,672 |
| 26-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 12,664 | 12,664 |
| 27-Nov-18 | BlackRock Advisors (UK) Limited | on mkt sell | 13.45 | ORD | -1,321 | -1,321 |
| 27-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.45 | ORD | -14,653 | -14,653 |
| 27-Nov-18 | BlackRock Fund Advisors | on mkt buy | 13.45 | ORD | 7,213 | 7,213 |
| 27-Nov-18 | BlackRock Investment Management (Australia) Limited | on mkt buy | 13.38 | ORD | 1,830 | 1,830 |
| 27-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,192 | 1,192 |
| 27-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,340 | 3,340 |
| 27-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,672 | 2,672 |
| 27-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | -25,693 | -25,693 |
| 28-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.22 | CFD | -138 | -138 |
| 28-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.22 | CFD | -1,951 | -1,951 |
| 28-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.2 | ORD | -13 | -13 |
| 28-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.2 | ORD | -11 | -11 |
| 28-Nov-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13.2 | ORD | 930 | 930 |

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|------------------|---|--|-------|---|---------|-------------------------|
| 28-Nov-18 | BlackRock Fund Advisors | on mkt buy | 13.2 | ORD | 21,384 | 21,384 |
| 28-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,831 | 2,831 |
| 29-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.23 | CFD | -93 | -93 |
| 29-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.23 | CFD | -2,288 | -2,288 |
| 29-Nov-18 | BlackRock Investment Management (Australia) Limited | on mkt sell | 13.29 | ORD | -1,245 | -1,245 |
| 29-Nov-18 | BlackRock Advisors, LLC | on mkt sell | 13.23 | ORD | -47,001 | -47,001 |
| 29-Nov-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 628 | 628 |
| 30-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.42 | CFD | -1,257 | -1,257 |
| 30-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.37 | CFD | -36 | -36 |
| 30-Nov-18 | BlackRock Advisors (UK) Limited | on mkt sell | 13.3 | ORD | -716 | -716 |
| 30-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.3 | ORD | 10,987 | 10,987 |
| 30-Nov-18 | BlackRock Japan Co., Ltd. | on mkt buy | 13.3 | ORD | 335 | 335 |
| 30-Nov-18 | BlackRock Investment Management, LLC | on mkt sell | 13.3 | ORD | -341 | -341 |
| 30-Nov-18 | BlackRock Investment Management (UK) Limited | on mkt buy | 13.3 | ORD | 3,422 | 3,422 |
| 30-Nov-18 | BlackRock Fund Advisors | on mkt sell | 13.3 | ORD | -15,403 | -15,403 |
| 30-Nov-18 | BlackRock Fund Advisors | on mkt sell | 13.3 | ORD | -15,528 | -15,528 |
| 30-Nov-18 | BlackRock Advisors (UK) Limited | on mkt sell | 13.3 | ORD | -16,797 | -16,797 |
| 30-Nov-18 | BlackRock Advisors (UK) Limited | on mkt sell | 13.3 | ORD | -3,942 | -3,942 |
| 30-Nov-18 | BlackRock Fund Advisors | on mkt sell | 13.3 | ORD | -4,617 | -4,617 |
| 30-Nov-18 | BlackRock Fund Advisors | on mkt sell | 13.3 | ORD | -2,953 | -2,953 |
| 30-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.3 | ORD | 3,264 | 3,264 |
| 30-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.3 | ORD | -5,127 | -5,127 |
| 30-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.3 | ORD | 10,309 | 10,309 |
| 30-Nov-18 | BlackRock Asset Management Canada Limited | on mkt sell | 13.3 | ORD | -2,381 | -2,381 |
| 30-Nov-18 | BlackRock Investment Management (UK) Limited | on mkt sell | 13.3 | ORD | -63,615 | -63,615 |
| 30-Nov-18 | BlackRock Investment Management, LLC | on mkt sell | 13.3 | ORD | -412 | -412 |
| 30-Nov-18 | BlackRock Fund Advisors | on mkt sell | 13.3 | ORD | -18,634 | -18,634 |
| 30-Nov-18 | BlackRock Fund Advisors | on mkt sell | 13.3 | ORD | -18,782 | -18,782 |
| 30-Nov-18 | BlackRock Fund Advisors | on mkt buy | 13.3 | ORD | 13,722 | 13,722 |
| 30-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.3 | ORD | 22,841 | 22,841 |
| 30-Nov-18 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.3 | ORD | 1,265 | 1,265 |
| 30-Nov-18 | BlackRock Investment Management (UK) Limited | on mkt sell | 13.3 | ORD | -1,369 | -1,369 |
| 03-Dec-18 | BlackRock Investment Management (Australia) Limited | on mkt sell | 13.32 | ORD | -3,931 | -3,931 |
| 03-Dec-18 | BlackRock Fund Advisors | on mkt sell | 13.31 | ORD | -811 | -811 |
| 03-Dec-18 | BlackRock Fund Advisors | on mkt sell | 13.31 | ORD | -817 | -817 |
| 03-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 13.31 | ORD | -884 | -884 |
| 03-Dec-18 | BlackRock Fund Advisors | on mkt sell | 13.31 | ORD | -243 | -243 |
| 03-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.31 | ORD | -270 | -270 |
| 03-Dec-18 | BlackRock Investment Management (UK) Limited | on mkt sell | 13.31 | ORD | -3,348 | -3,348 |

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|------------------|---|--|-------|---|---------|-------------------------|
| 03-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 13.31 | ORD | -207 | -207 |
| 03-Dec-18 | BlackRock Fund Advisors | on mkt sell | 13.31 | ORD | -155 | -155 |
| 03-Dec-18 | BlackRock Asset Management Canada Limited | on mkt sell | 13.31 | ORD | -125 | -125 |
| 03-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.34 | CFD | -9,547 | -9,547 |
| 03-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.32 | CFD | -36 | -36 |
| 03-Dec-18 | BlackRock Investment Management, LLC | on mkt sell | 13.31 | ORD | -18 | -18 |
| 03-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.29 | CFD | -244 | -244 |
| 03-Dec-18 | BlackRock Investment Management (Australia) Limited | on mkt buy | 13.26 | ORD | 12,187 | 12,187 |
| 03-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 720 | 720 |
| 04-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.2 | CFD | -3,454 | -3,454 |
| 04-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.22 | CFD | -225 | -225 |
| 04-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.34 | ORD | 2,852 | 2,852 |
| 04-Dec-18 | BlackRock Advisors (UK) Limited | on mkt buy | 13 | ORD | 192 | 192 |
| 04-Dec-18 | BlackRock Investment Management (UK) Limited | on mkt sell | 13 | ORD | -15,584 | -15,584 |
| 04-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,795 | 3,795 |
| 04-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 12,820 | 12,820 |
| 04-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,923 | 1,923 |
| 05-Dec-18 | BlackRock Fund Advisors | on mkt buy | 12.55 | ORD | 13,776 | 13,776 |
| 05-Dec-18 | BlackRock Fund Advisors | on mkt buy | 12.55 | ORD | 14,760 | 14,760 |
| 06-Dec-18 | BlackRock Investment Management (UK) Limited | in specie | n/a | ORD | 516,346 | 516,346 |
| 06-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.47 | ORD | -5,104 | -5,104 |
| 06-Dec-18 | BlackRock Advisors (UK) Limited | on mkt buy | 12.47 | ORD | 296 | 296 |
| 06-Dec-18 | BlackRock Advisors (UK) Limited | on mkt buy | 12.47 | ORD | 5,698 | 5,698 |
| 06-Dec-18 | BlackRock Advisors (UK) Limited | on mkt buy | 12.47 | ORD | 1,536 | 1,536 |
| 06-Dec-18 | BlackRock Advisors (UK) Limited | on mkt buy | 12.47 | ORD | 360 | 360 |
| 06-Dec-18 | BlackRock Advisors (UK) Limited | on mkt buy | 12.47 | ORD | 2,330 | 2,330 |
| 06-Dec-18 | BlackRock Investment Management (UK) Limited | on mkt buy | 12.47 | ORD | 13,151 | 13,151 |
| 06-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,784 | 2,784 |
| 06-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 6,364 | 6,364 |
| 06-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,750 | 1,750 |
| 06-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 25,918 | 25,918 |
| 07-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.37 | ORD | -2,545 | -2,545 |
| 07-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.37 | ORD | -509 | -509 |
| 07-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.37 | ORD | -506 | -506 |
| 07-Dec-18 | BlackRock Advisors (UK) Limited | on mkt buy | 12.38 | ORD | 3,159 | 3,159 |
| 07-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.38 | ORD | -153 | -153 |
| 07-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 5,568 | 5,568 |
| 07-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,530 | 2,530 |
| 07-Dec-18 | BlackRock Investment Management, LLC | on mkt sell | 12.21 | ORD | -790 | -790 |

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|------------------|---|--|-------|---|----------|-------------------------|
| 07-Dec-18 | BlackRock Investment Management (UK) Limited | in specie | n/a | ORD | -7,302 | -7,302 |
| 10-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.27 | ORD | -112,589 | -112,589 |
| 10-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.25 | ORD | -3,819 | -3,819 |
| 10-Dec-18 | BlackRock Advisors (UK) Limited | on mkt buy | 12.25 | ORD | 319 | 319 |
| 10-Dec-18 | BlackRock Advisors (UK) Limited | on mkt buy | 12.25 | ORD | 702 | 702 |
| 10-Dec-18 | BlackRock Investment Management (Australia) Limited | on mkt buy | 12.21 | ORD | 915 | 915 |
| 10-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 7,955 | 7,955 |
| 10-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,875 | 1,875 |
| 11-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.31 | ORD | -40,146 | -40,146 |
| 11-Dec-18 | BlackRock Investment Management (Australia) Limited | on mkt buy | 12.39 | ORD | 1,830 | 1,830 |
| 11-Dec-18 | BlackRock Investment Management (Australia) Limited | on mkt sell | 12.39 | ORD | -2,490 | -2,490 |
| 11-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 4,487 | 4,487 |
| 11-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,923 | 1,923 |
| 12-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.35 | ORD | -202 | -202 |
| 12-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.35 | ORD | -41 | -41 |
| 12-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.35 | ORD | -40 | -40 |
| 12-Dec-18 | BlackRock Advisors (UK) Limited | on mkt buy | 12.3 | ORD | 465 | 465 |
| 12-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.3 | ORD | -604 | -604 |
| 12-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.3 | ORD | -40,703 | -40,703 |
| 12-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 7,590 | 7,590 |
| 12-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,715 | 1,715 |
| 13-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,088 | 2,088 |
| 13-Dec-18 | BlackRock Investment Management (Australia) Limited | in specie | n/a | ORD | -2,896 | -2,896 |
| 13-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,564 | 2,564 |
| 13-Dec-18 | BlackRock Investment Management (UK) Limited | in specie | n/a | ORD | 9,305 | 9,305 |
| 13-Dec-18 | BlackRock Investment Management (UK) Limited | in specie | n/a | ORD | -9,305 | -9,305 |
| 14-Dec-18 | BlackRock Investment Management, LLC | on mkt buy | 12.07 | ORD | 1,040 | 1,040 |
| 14-Dec-18 | BlackRock Financial Management, Inc. | on mkt buy | 12.07 | ORD | 6,669 | 6,669 |
| 14-Dec-18 | BlackRock Advisors (UK) Limited | on mkt buy | 11.85 | ORD | 195 | 195 |
| 14-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 11.85 | ORD | -5,088 | -5,088 |
| 14-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 11.85 | ORD | -3,258 | -3,258 |
| 14-Dec-18 | BlackRock Advisors (UK) Limited | on mkt buy | 11.85 | ORD | 9,308 | 9,308 |
| 14-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 11.85 | ORD | -2,668 | -2,668 |
| 14-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 11.85 | ORD | -25,141 | -25,141 |
| 14-Dec-18 | BlackRock Advisors, LLC | on mkt sell | 11.78 | ORD | -1,964 | -1,964 |
| 14-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 4,822 | 4,822 |
| 14-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,205 | 3,205 |
| 14-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 5,769 | 5,769 |
| 17-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.4 | ORD | -2,149 | -2,149 |

| Transaction Date | Person whose relevant interest changed | Nature of change / Consideration (NZD) | | Class and number of securities affected | | Person's votes affected |
|------------------|---|--|-------|---|---------|-------------------------|
| 17-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 6,325 | 6,325 |
| 17-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 759 | 759 |
| 17-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,750 | 3,750 |
| 17-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 16,025 | 16,025 |
| 17-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 5,128 | 5,128 |
| 17-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 4,822 | 4,822 |
| 18-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.21 | ORD | -8,918 | -8,918 |
| 18-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.28 | ORD | -1,113 | -1,113 |
| 18-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.25 | ORD | -954 | -954 |
| 18-Dec-18 | BlackRock Advisors (UK) Limited | on mkt buy | 12.25 | ORD | 195 | 195 |
| 18-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.25 | ORD | -151 | -151 |
| 18-Dec-18 | BlackRock Fund Advisors | on mkt sell | 12.25 | ORD | -25,405 | -25,405 |
| 18-Dec-18 | BlackRock Fund Advisors | on mkt sell | 12.25 | ORD | -16,800 | -16,800 |
| 18-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.25 | ORD | -708 | -708 |
| 19-Dec-18 | BlackRock Investment Management (UK) Limited | on mkt buy | 12.32 | ORD | 7,626 | 7,626 |
| 19-Dec-18 | BlackRock Investment Management (Australia) Limited | on mkt sell | 12.43 | ORD | -30,109 | -30,109 |
| 19-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.45 | ORD | -125 | -125 |
| 19-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.45 | ORD | -36 | -36 |
| 19-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.45 | ORD | -35 | -35 |
| 19-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.5 | ORD | -1,884 | -1,884 |
| 19-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.5 | ORD | -2,546 | -2,546 |
| 19-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.5 | ORD | -306 | -306 |
| 19-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.5 | ORD | -302 | -302 |
| 19-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.5 | ORD | -1,099 | -1,099 |
| 19-Dec-18 | BlackRock Institutional Trust Company, National Association | in specie | n/a | ORD | 49,512 | 49,512 |
| 20-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.25 | ORD | -447 | -447 |
| 20-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt buy | 12.25 | ORD | 588 | 588 |
| 20-Dec-18 | BlackRock (Netherlands) B.V. | on mkt buy | 12.25 | ORD | 1,155 | 1,155 |
| 20-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.25 | ORD | -298 | -298 |
| 20-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.38 | ORD | -3,882 | -3,882 |
| 20-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,480 | 3,480 |
| 20-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 6,304 | 6,304 |
| 20-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 6,340 | 6,340 |
| 21-Dec-18 | BlackRock Fund Advisors | on mkt buy | 12.26 | ORD | 1,607 | 1,607 |
| 21-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.6 | ORD | -780 | -780 |
| 21-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.6 | ORD | -600 | -600 |
| 21-Dec-18 | BlackRock Advisors (UK) Limited | on mkt buy | 12.6 | ORD | 78 | 78 |
| 21-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 12.6 | ORD | -5,172 | -5,172 |
| 21-Dec-18 | BlackRock Investment Management (UK) Limited | on mkt buy | 12.6 | ORD | 4,796 | 4,796 |

| Transaction Date | Person whose relevant interest changed | Nature of change / Consideration (NZD) | | Class and number of securities affected | | Person's votes affected |
|------------------|---|--|-------|---|---------|-------------------------|
| 21-Dec-18 | BlackRock Investment Management (UK) Limited | on mkt buy | 12.6 | ORD | 15,582 | 15,582 |
| 21-Dec-18 | BlackRock Investment Management (Australia) Limited | on mkt buy | 12.54 | ORD | 1,450 | 1,450 |
| 21-Dec-18 | BlackRock Investment Management (Australia) Limited | on mkt buy | 12.54 | ORD | 3,838 | 3,838 |
| 21-Dec-18 | BlackRock Investment Management (Australia) Limited | on mkt buy | 12.54 | ORD | 3,782 | 3,782 |
| 21-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 8,640 | 8,640 |
| 21-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,640 | 1,640 |
| 24-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,480 | 3,480 |
| 24-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 10,440 | 10,440 |
| 24-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,277 | 2,277 |
| 27-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 8,242 | 8,242 |
| 27-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 4,438 | 4,438 |
| 27-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 4,822 | 4,822 |
| 27-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 6,304 | 6,304 |
| 27-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,024 | 2,024 |
| 27-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 5,566 | 5,566 |
| 27-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 11,032 | 11,032 |
| 27-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 6,578 | 6,578 |
| 27-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | -25,534 | -25,534 |
| 28-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.04 | CFD | -488 | -488 |
| 28-Dec-18 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.05 | CFD | -13,207 | -13,207 |
| 28-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 13 | ORD | -388 | -388 |
| 28-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 13 | ORD | -450 | -450 |
| 28-Dec-18 | BlackRock Advisors, LLC | on mkt sell | 13 | ORD | -801 | -801 |
| 28-Dec-18 | BlackRock Fund Advisors | in specie | n/a | ORD | 5,072 | 5,072 |
| 31-Dec-18 | BlackRock Advisors (UK) Limited | on mkt sell | 13 | ORD | -1,092 | -1,092 |
| 02-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,480 | 3,480 |
| 02-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 7,084 | 7,084 |
| 02-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 7,233 | 7,233 |
| 02-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,170 | 3,170 |
| 03-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -8,980 | -8,980 |
| 03-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 8,876 | 8,876 |
| 03-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.95 | CFD | -468 | -468 |
| 03-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.96 | CFD | -13,955 | -13,955 |
| 03-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.95 | CFD | -4,111 | -4,111 |
| 03-Jan-19 | BlackRock Investment Management (UK) Limited | on mkt sell | 12.96 | ORD | -5,314 | -5,314 |
| 03-Jan-19 | BlackRock Investment Management (Australia) Limited | on mkt buy | 13 | ORD | 22,897 | 22,897 |
| 03-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 12.95 | ORD | 358 | 358 |
| 03-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 12.95 | ORD | 2,860 | 2,860 |
| 03-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 12.95 | ORD | 496 | 496 |

| Transaction Date | Person whose relevant interest changed | Nature of change / Consideration (NZD) | | Class and number of securities affected | | Person's votes affected |
|------------------|---|--|-------|---|---------|-------------------------|
| 03-Jan-19 | BlackRock Investment Management (Australia) Limited | on mkt sell | 12.98 | ORD | -1,486 | -1,486 |
| 03-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 5,706 | 5,706 |
| 03-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 4,822 | 4,822 |
| 03-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -76,602 | -76,602 |
| 04-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.97 | CFD | -9,643 | -9,643 |
| 04-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.91 | CFD | -349 | -349 |
| 04-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.04 | ORD | -401 | -401 |
| 04-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.04 | ORD | -387 | -387 |
| 04-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.01 | ORD | -108 | -108 |
| 04-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.01 | ORD | -35 | -35 |
| 04-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.01 | ORD | -34 | -34 |
| 04-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.93 | CFD | -4,101 | -4,101 |
| 04-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.14 | ORD | 114,960 | 114,960 |
| 04-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.14 | ORD | 105,834 | 105,834 |
| 04-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13 | CFD | -4,501 | -4,501 |
| 04-Jan-19 | BlackRock Investment Management (UK) Limited | on mkt sell | 13.19 | ORD | -1,338 | -1,338 |
| 04-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.19 | ORD | 222 | 222 |
| 04-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.19 | ORD | 358 | 358 |
| 04-Jan-19 | BlackRock Advisors (UK) Limited | on mkt sell | 13.19 | ORD | -1,624 | -1,624 |
| 04-Jan-19 | BlackRock Advisors (UK) Limited | on mkt sell | 13.19 | ORD | -776 | -776 |
| 04-Jan-19 | BlackRock Investment Management, LLC | on mkt sell | 13.19 | ORD | -7,590 | -7,590 |
| 04-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 6,525 | 6,525 |
| 04-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,520 | 2,520 |
| 04-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,480 | 3,480 |
| 04-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,750 | 3,750 |
| 04-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,518 | 1,518 |
| 07-Jan-19 | BlackRock Advisors (UK) Limited | on mkt sell | 13.25 | ORD | -5,156 | -5,156 |
| 07-Jan-19 | BlackRock Advisors (UK) Limited | on mkt sell | 13.25 | ORD | -6,445 | -6,445 |
| 08-Jan-19 | BlackRock Advisors (UK) Limited | on mkt sell | 13.07 | ORD | -2,864 | -2,864 |
| 08-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,030 | 2,030 |
| 08-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,120 | 3,120 |
| 09-Jan-19 | BlackRock Investment Management (UK) Limited | on mkt sell | 13.25 | ORD | -5,152 | -5,152 |
| 09-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.35 | ORD | -529 | -529 |
| 09-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.35 | ORD | -511 | -511 |
| 09-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.45 | ORD | 217 | 217 |
| 09-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.45 | ORD | 31 | 31 |
| 09-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.45 | ORD | 29 | 29 |
| 09-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.48 | ORD | 1,596 | 1,596 |
| 09-Jan-19 | BlackRock Advisors (UK) Limited | on mkt sell | 13.48 | ORD | -359 | -359 |

| Transaction Date | Person whose relevant interest changed | Nature of change / Consideration (NZD) | | Class and number of securities affected | | Person's votes affected |
|------------------|---|--|-------|---|---------|-------------------------|
| 09-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.48 | ORD | 5,383 | 5,383 |
| 09-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 480 | 480 |
| 09-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 480 | 480 |
| 09-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 960 | 960 |
| 09-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 27,120 | 27,120 |
| 09-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -8,980 | -8,980 |
| 09-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -8,980 | -8,980 |
| 10-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.5 | ORD | 312 | 312 |
| 10-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.49 | ORD | 2,616 | 2,616 |
| 10-Jan-19 | BlackRock Asset Management North Asia Limited | on mkt buy | 13.5 | ORD | 4,466 | 4,466 |
| 10-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.5 | ORD | 2,410 | 2,410 |
| 10-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,500 | 2,500 |
| 10-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,200 | 1,200 |
| 11-Jan-19 | BlackRock Institutional Trust Company, National Association | in specie | n/a | ORD | 49,324 | 49,324 |
| 11-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.6 | ORD | 1,303 | 1,303 |
| 11-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.6 | ORD | 1,186 | 1,186 |
| 11-Jan-19 | BlackRock Investment Management, LLC | on mkt buy | 13.6 | ORD | 5,536 | 5,536 |
| 11-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.6 | ORD | 1,690 | 1,690 |
| 11-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -6,304 | -6,304 |
| 11-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -2,530 | -2,530 |
| 11-Jan-19 | BlackRock Advisors (UK) Limited | in specie | n/a | ORD | -3,024 | -3,024 |
| 14-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.8 | ORD | 3,971 | 3,971 |
| 14-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.8 | ORD | 361 | 361 |
| 14-Jan-19 | BlackRock Investment Management, LLC | on mkt buy | 13.73 | ORD | 7,356 | 7,356 |
| 14-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -6,304 | -6,304 |
| 14-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -6,578 | -6,578 |
| 15-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.82 | ORD | 1,303 | 1,303 |
| 15-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.84 | ORD | 359 | 359 |
| 15-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.84 | ORD | 450 | 450 |
| 15-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -2,783 | -2,783 |
| 15-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -1,771 | -1,771 |
| 15-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -9,456 | -9,456 |
| 15-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -22,064 | -22,064 |
| 15-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -1,771 | -1,771 |
| 15-Jan-19 | BlackRock Financial Management, Inc. | in specie | n/a | ORD | -28,515 | -28,515 |
| 16-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.95 | ORD | -454 | -454 |
| 16-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.95 | ORD | -433 | -433 |
| 16-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.95 | ORD | -142 | -142 |
| 16-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.95 | ORD | -32 | -32 |

| Transaction Date | Person whose relevant interest changed | Nature of change / Consideration (NZD) | | Class and number of securities affected | | Person's votes affected |
|------------------|---|--|-------|---|---------|-------------------------|
| 16-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.95 | ORD | -27 | -27 |
| 16-Jan-19 | BlackRock Institutional Trust Company, National Association | in specie | n/a | ORD | -11,591 | -11,591 |
| 16-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.05 | ORD | 193 | 193 |
| 16-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 14.05 | ORD | 3,430 | 3,430 |
| 16-Jan-19 | BlackRock Investment Management (Australia) Limited | on mkt buy | 14.03 | ORD | 9,060 | 9,060 |
| 16-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 6,912 | 6,912 |
| 16-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -6,304 | -6,304 |
| 16-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,200 | 1,200 |
| 16-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -4,822 | -4,822 |
| 17-Jan-19 | BlackRock Asset Management Canada Limited | in specie | n/a | ORD | 4,081 | 4,081 |
| 17-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.1 | ORD | 6,515 | 6,515 |
| 17-Jan-19 | BlackRock Advisors (UK) Limited | on mkt sell | 14.1 | ORD | -363 | -363 |
| 17-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.1 | ORD | 4,980 | 4,980 |
| 17-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.1 | ORD | 450 | 450 |
| 17-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.1 | ORD | 7,516 | 7,516 |
| 17-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 14.1 | ORD | -447 | -447 |
| 17-Jan-19 | BlackRock Asset Management Canada Limited | on mkt buy | 14.1 | ORD | 2,554 | 2,554 |
| 17-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,740 | 1,740 |
| 17-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -17,280 | -17,280 |
| 17-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 240 | 240 |
| 17-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,170 | 3,170 |
| 18-Jan-19 | BlackRock Advisors, LLC | on mkt buy | 13.98 | ORD | 2,350 | 2,350 |
| 18-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.98 | ORD | 731 | 731 |
| 18-Jan-19 | BlackRock Advisors, LLC | on mkt buy | 13.98 | ORD | 1,824 | 1,824 |
| 18-Jan-19 | BlackRock Investment Management, LLC | on mkt buy | 13.98 | ORD | 1,337 | 1,337 |
| 18-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.85 | ORD | 281 | 281 |
| 18-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.85 | ORD | 650 | 650 |
| 21-Jan-19 | BlackRock Advisors (UK) Limited | in specie | n/a | ORD | -34,455 | -34,455 |
| 22-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.93 | ORD | 232 | 232 |
| 22-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.93 | ORD | 1,302 | 1,302 |
| 22-Jan-19 | BlackRock Investment Management (Australia) Limited | on mkt buy | 13.93 | ORD | 9,280 | 9,280 |
| 22-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -2,277 | -2,277 |
| 22-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -7,233 | -7,233 |
| 23-Jan-19 | BlackRock Investment Management (UK) Limited | on mkt sell | 13.8 | ORD | -2,222 | -2,222 |
| 23-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.89 | ORD | -359 | -359 |
| 23-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.89 | ORD | -343 | -343 |
| 23-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.93 | ORD | 54 | 54 |
| 23-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.93 | ORD | 9 | 9 |
| 23-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.93 | ORD | 8 | 8 |

| Transaction Date | Person whose relevant interest changed | Nature of change / Consideration (NZD) | | Class and number of securities affected | | Person's votes affected |
|------------------|---|--|-------|---|--------|-------------------------|
| 23-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.94 | ORD | 232 | 232 |
| 23-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.94 | ORD | 38,511 | 38,511 |
| 23-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -1,771 | -1,771 |
| 23-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -2,530 | -2,530 |
| 23-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 720 | 720 |
| 23-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,170 | 3,170 |
| 24-Jan-19 | BlackRock Investment Management (UK) Limited | on mkt buy | 13.88 | ORD | 4,156 | 4,156 |
| 24-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.8 | ORD | 30,071 | 30,071 |
| 24-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.82 | ORD | 1,302 | 1,302 |
| 24-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.82 | ORD | 1,077 | 1,077 |
| 24-Jan-19 | BlackRock Asset Management North Asia Limited | on mkt sell | 13.82 | ORD | -7,752 | -7,752 |
| 24-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -2,191 | -2,191 |
| 24-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -7,776 | -7,776 |
| 24-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -3,888 | -3,888 |
| 24-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -984 | -984 |
| 24-Jan-19 | BlackRock Institutional Trust Company, National Association | in specie | n/a | ORD | 3,762 | 3,762 |
| 25-Jan-19 | BlackRock Investment Management (Australia) Limited | on mkt buy | 13.49 | ORD | 1,092 | 1,092 |
| 28-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -1,265 | -1,265 |
| 28-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,536 | 2,536 |
| 29-Jan-19 | BlackRock Investment Management (Australia) Limited | on mkt buy | 12.56 | ORD | 2,912 | 2,912 |
| 29-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 12.74 | ORD | 517 | 517 |
| 29-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 12.74 | ORD | 40,000 | 40,000 |
| 29-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -1,265 | -1,265 |
| 29-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -2,024 | -2,024 |
| 29-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,200 | 1,200 |
| 29-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -4,822 | -4,822 |
| 30-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.56 | ORD | -3,202 | -3,202 |
| 30-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.56 | ORD | -1,461 | -1,461 |
| 30-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.56 | ORD | -1,451 | -1,451 |
| 30-Jan-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.52 | ORD | -207 | -207 |
| 30-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -1,252 | -1,252 |
| 30-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 8,980 | 8,980 |
| 30-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,170 | 3,170 |
| 30-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,902 | 1,902 |
| 31-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 12.56 | ORD | 1,191 | 1,191 |
| 31-Jan-19 | BlackRock Advisors (UK) Limited | on mkt buy | 12.56 | ORD | 300 | 300 |
| 31-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -1,518 | -1,518 |
| 31-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -200 | -200 |
| 31-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 8,980 | 8,980 |

| Transaction Date | Person whose relevant interest changed | Nature of change / Consideration (NZD) | | Class and number of securities affected | Person's votes affected | |
|------------------|---|--|-------|---|-------------------------|----------|
| 31-Jan-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -6,304 | -6,304 |
| 31-Jan-19 | BlackRock Institutional Trust Company, National Association | in specie | n/a | ORD | -11,142 | -11,142 |
| 31-Jan-19 | BlackRock Institutional Trust Company, National Association | in specie | n/a | ORD | 11,142 | 11,142 |
| 31-Jan-19 | BlackRock Institutional Trust Company, National Association | in specie | n/a | ORD | -8,739 | -8,739 |
| 31-Jan-19 | BlackRock Institutional Trust Company, National Association | in specie | n/a | ORD | 8,739 | 8,739 |
| 01-Feb-19 | BlackRock Investment Management (UK) Limited | on mkt sell | 12.66 | ORD | -3,893 | -3,893 |
| 04-Feb-19 | BlackRock Investment Management (UK) Limited | on mkt sell | 12.67 | ORD | -12,984 | -12,984 |
| 04-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 12.69 | ORD | 384 | 384 |
| 04-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 12.69 | ORD | 600 | 600 |
| 04-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 12.69 | ORD | -1,215 | -1,215 |
| 04-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 12.69 | ORD | 7,538 | 7,538 |
| 04-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -15,760 | -15,760 |
| 04-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -2,411 | -2,411 |
| 04-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,536 | 2,536 |
| 05-Feb-19 | BlackRock Financial Management, Inc. | in specie | n/a | ORD | -167,972 | -167,972 |
| 07-Feb-19 | BlackRock Advisors (UK) Limited | on mkt sell | 13.26 | ORD | -912 | -912 |
| 07-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.26 | ORD | 361 | 361 |
| 07-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.26 | ORD | 241 | 241 |
| 07-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.26 | ORD | 363 | 363 |
| 07-Feb-19 | BlackRock Advisors (UK) Limited | on mkt sell | 13.26 | ORD | -85 | -85 |
| 07-Feb-19 | BlackRock Advisors, LLC | on mkt sell | 13.26 | ORD | -46,834 | -46,834 |
| 07-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 51,068 | 51,068 |
| 07-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -492 | -492 |
| 07-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 720 | 720 |
| 08-Feb-19 | BlackRock Advisors (UK) Limited | on mkt sell | 13.42 | ORD | -242 | -242 |
| 08-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.42 | ORD | 363 | 363 |
| 08-Feb-19 | BlackRock Advisors (UK) Limited | on mkt sell | 13.42 | ORD | -1,671 | -1,671 |
| 08-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,170 | 3,170 |
| 08-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 102,136 | 102,136 |
| 11-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.67 | ORD | 15,380 | 15,380 |
| 11-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -3,795 | -3,795 |
| 11-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -3,542 | -3,542 |
| 12-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.74 | ORD | 365 | 365 |
| 12-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -7,880 | -7,880 |
| 12-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 25,534 | 25,534 |
| 12-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 5,000 | 5,000 |
| 13-Feb-19 | BlackRock Institutional Trust Company, National Association | in specie | n/a | ORD | -98,437 | -98,437 |
| 13-Feb-19 | BlackRock Fund Advisors | on mkt buy | 13.9 | ORD | 26,671 | 26,671 |
| 13-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.89 | ORD | -94 | -94 |

| Transaction Date | Person whose relevant interest changed | Nature of change / Consideration (NZD) | | Class and number of securities affected | | Person's votes affected |
|------------------|---|--|-------|---|---------|-------------------------|
| 13-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.89 | ORD | -36 | -36 |
| 13-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.89 | ORD | -33 | -33 |
| 13-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.9 | ORD | 7,830 | 7,830 |
| 13-Feb-19 | BlackRock Advisors (UK) Limited | on mkt sell | 13.9 | ORD | -151 | -151 |
| 13-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.9 | ORD | 722 | 722 |
| 13-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.9 | ORD | 2,693 | 2,693 |
| 13-Feb-19 | BlackRock Investment Management (Australia) Limited | on mkt buy | 13.77 | ORD | 4,988 | 4,988 |
| 13-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -1,945 | -1,945 |
| 13-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 960 | 960 |
| 13-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -4,822 | -4,822 |
| 14-Feb-19 | BlackRock Fund Advisors | on mkt buy | 13.72 | ORD | 71,249 | 71,249 |
| 14-Feb-19 | BlackRock Advisors (UK) Limited | on mkt sell | 13.7 | ORD | -36,534 | -36,534 |
| 14-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.7 | ORD | 728 | 728 |
| 14-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -1,556 | -1,556 |
| 14-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -2,723 | -2,723 |
| 14-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 8,876 | 8,876 |
| 14-Feb-19 | BlackRock Investment Management, LLC | in specie | n/a | ORD | -1,650 | -1,650 |
| 14-Feb-19 | BlackRock Investment Management, LLC | in specie | n/a | ORD | 1,650 | 1,650 |
| 15-Feb-19 | BlackRock Investment Management (UK) Limited | on mkt buy | 13.63 | ORD | 23,670 | 23,670 |
| 15-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.51 | ORD | 798 | 798 |
| 15-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,902 | 1,902 |
| 15-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,170 | 3,170 |
| 15-Feb-19 | BlackRock Advisors (UK) Limited | in specie | n/a | ORD | -4,787 | -4,787 |
| 18-Feb-19 | BlackRock Investment Management (UK) Limited | in specie | n/a | ORD | -7,755 | -7,755 |
| 19-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 13.43 | ORD | 2,636 | 2,636 |
| 19-Feb-19 | BlackRock Financial Management, Inc. | in specie | n/a | ORD | -12,650 | -12,650 |
| 19-Feb-19 | BlackRock Institutional Trust Company, National Association | in specie | n/a | ORD | -12,846 | -12,846 |
| 19-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,536 | 2,536 |
| 20-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.39 | ORD | -2,246 | -2,246 |
| 20-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.39 | ORD | -601 | -601 |
| 20-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 13.39 | ORD | -519 | -519 |
| 20-Feb-19 | BlackRock Investment Management, LLC | on mkt buy | 13.39 | ORD | 1,789 | 1,789 |
| 20-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.39 | ORD | 447 | 447 |
| 20-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.39 | ORD | 91 | 91 |
| 20-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 13.39 | ORD | 91 | 91 |
| 20-Feb-19 | BlackRock Institutional Trust Company, National Association | in specie | n/a | ORD | -7,833 | -7,833 |
| 20-Feb-19 | BlackRock Investment Management (UK) Limited | on mkt buy | 13.38 | ORD | 21,313 | 21,313 |
| 20-Feb-19 | BlackRock Institutional Trust Company, National Association | in specie | n/a | ORD | 53,434 | 53,434 |
| 20-Feb-19 | BlackRock Institutional Trust Company, National Association | in specie | n/a | ORD | -53,434 | -53,434 |

| Transaction Date | Person whose relevant interest changed | Nature of change / Consideration (NZD) | | Class and number of securities affected | | Person's votes affected |
|------------------|---|--|-------|---|---------|-------------------------|
| 21-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.29 | ORD | 732 | 732 |
| 21-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.28 | ORD | 2,636 | 2,636 |
| 21-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.29 | ORD | 7,917 | 7,917 |
| 21-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -7,880 | -7,880 |
| 22-Feb-19 | BlackRock Investment Management (UK) Limited | on mkt buy | 14.41 | ORD | 6,323 | 6,323 |
| 22-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.41 | ORD | 1,196 | 1,196 |
| 22-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.41 | ORD | 1,320 | 1,320 |
| 22-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 9,072 | 9,072 |
| 22-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -17,336 | -17,336 |
| 22-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,536 | 2,536 |
| 25-Feb-19 | BlackRock Advisors (UK) Limited | on mkt sell | 14.37 | ORD | -239 | -239 |
| 25-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.37 | ORD | 11,880 | 11,880 |
| 25-Feb-19 | BlackRock Investment Management (UK) Limited | on mkt buy | 14.37 | ORD | 16,567 | 16,567 |
| 25-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,088 | 2,088 |
| 25-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 10,368 | 10,368 |
| 25-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,200 | 1,200 |
| 26-Feb-19 | BlackRock Investment Management (UK) Limited | in specie | n/a | ORD | 61,539 | 61,539 |
| 26-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.44 | ORD | 368 | 368 |
| 26-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 14.44 | ORD | -8,339 | -8,339 |
| 26-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 14.44 | ORD | 13,203 | 13,203 |
| 27-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 14.35 | ORD | -386 | -386 |
| 27-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 14.35 | ORD | -82 | -82 |
| 27-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 14.35 | ORD | -81 | -81 |
| 27-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.33 | ORD | 1,192 | 1,192 |
| 27-Feb-19 | BlackRock Japan Co., Ltd. | on mkt buy | 14.33 | ORD | 2,235 | 2,235 |
| 27-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 14.33 | ORD | 3,574 | 3,574 |
| 27-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -6,304 | -6,304 |
| 27-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 1,200 | 1,200 |
| 28-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.7 | ORD | 7,311 | 7,311 |
| 28-Feb-19 | BlackRock Japan Co., Ltd. | on mkt sell | 14.7 | ORD | -256 | -256 |
| 28-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 14.7 | ORD | 4,329 | 4,329 |
| 28-Feb-19 | BlackRock (Netherlands) B.V. | on mkt buy | 14.7 | ORD | 7,636 | 7,636 |
| 28-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 14.7 | ORD | -64,690 | -64,690 |
| 28-Feb-19 | BlackRock International Limited | on mkt buy | 14.7 | ORD | 5,026 | 5,026 |
| 28-Feb-19 | BlackRock Fund Advisors | on mkt sell | 14.7 | ORD | -547 | -547 |
| 28-Feb-19 | BlackRock Fund Advisors | on mkt buy | 14.7 | ORD | 6,932 | 6,932 |
| 28-Feb-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.7 | ORD | 1,376 | 1,376 |
| 28-Feb-19 | BlackRock Japan Co., Ltd. | on mkt buy | 14.7 | ORD | 2,898 | 2,898 |
| 28-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 14.7 | ORD | 1,344 | 1,344 |

| Transaction Date | Person whose relevant interest changed | Nature of change / Consideration (NZD) | | Class and number of securities affected | | Person's votes affected |
|------------------|---|--|-------|---|---------|-------------------------|
| 28-Feb-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 14.7 | ORD | 219 | 219 |
| 28-Feb-19 | BlackRock Investment Management (UK) Limited | on mkt buy | 14.7 | ORD | 7,492 | 7,492 |
| 28-Feb-19 | BlackRock Investment Management, LLC | on mkt buy | 14.7 | ORD | 427 | 427 |
| 28-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -7,880 | -7,880 |
| 28-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,170 | 3,170 |
| 28-Feb-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -2,411 | -2,411 |
| 01-Mar-19 | BlackRock Advisors (UK) Limited | on mkt sell | 15.05 | ORD | -79,828 | -79,828 |
| 01-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.99 | ORD | 1,665 | 1,665 |
| 01-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,088 | 2,088 |
| 04-Mar-19 | BlackRock Investment Management (UK) Limited | on mkt sell | 15.02 | ORD | -3,657 | -3,657 |
| 04-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.84 | ORD | 1,289 | 1,289 |
| 04-Mar-19 | BlackRock Advisors (UK) Limited | on mkt sell | 14.69 | ORD | -1,232 | -1,232 |
| 04-Mar-19 | BlackRock Advisors (UK) Limited | on mkt sell | 14.69 | ORD | -376 | -376 |
| 04-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.73 | ORD | 60,006 | 60,006 |
| 04-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -4,728 | -4,728 |
| 05-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.75 | ORD | 12,870 | 12,870 |
| 05-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 3,804 | 3,804 |
| 05-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 4,532 | 4,532 |
| 06-Mar-19 | BlackRock Investment Management (UK) Limited | on mkt buy | 14.81 | ORD | 16,440 | 16,440 |
| 06-Mar-19 | BlackRock Investment Management (Australia) Limited | on mkt buy | 14.84 | ORD | 20,978 | 20,978 |
| 06-Mar-19 | BlackRock Investment Management (Australia) Limited | on mkt buy | 14.84 | ORD | 3,204 | 3,204 |
| 06-Mar-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 14.88 | ORD | -171 | -171 |
| 06-Mar-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 14.88 | ORD | -43 | -43 |
| 06-Mar-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 14.88 | ORD | -43 | -43 |
| 06-Mar-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 14.95 | ORD | 2,511 | 2,511 |
| 06-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.95 | ORD | 6,470 | 6,470 |
| 06-Mar-19 | BlackRock Investment Management (Australia) Limited | on mkt buy | 14.89 | ORD | 6,351 | 6,351 |
| 06-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 12,528 | 12,528 |
| 06-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -3,152 | -3,152 |
| 07-Mar-19 | BlackRock Investment Management, LLC | on mkt buy | 15.05 | ORD | 1,202 | 1,202 |
| 07-Mar-19 | BlackRock Investment Management (Australia) Limited | on mkt buy | 15.07 | ORD | 3,016 | 3,016 |
| 07-Mar-19 | BlackRock Investment Management (UK) Limited | on mkt buy | 15.03 | ORD | 4,891 | 4,891 |
| 07-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 15.05 | ORD | 1,120 | 1,120 |
| 07-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 15.05 | ORD | 366 | 366 |
| 07-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 15.05 | ORD | 366 | 366 |
| 07-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 9,064 | 9,064 |
| 07-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | -4,822 | -4,822 |
| 07-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,536 | 2,536 |
| 08-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 15.09 | ORD | 1,456 | 1,456 |

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|------------------|---|--|-------|---|--------|-------------------------|
| 08-Mar-19 | BlackRock Advisors (UK) Limited | on mkt sell | 15.09 | ORD | -7,842 | -7,842 |
| 08-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 15.09 | ORD | 81 | 81 |
| 08-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 15.09 | ORD | 1,008 | 1,008 |
| 08-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 15.09 | ORD | 453 | 453 |
| 08-Mar-19 | BlackRock Advisors (UK) Limited | on mkt sell | 15.09 | ORD | -752 | -752 |
| 08-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,784 | 2,784 |
| 08-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 8,208 | 8,208 |
| 08-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 4,532 | 4,532 |
| 08-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 720 | 720 |
| 11-Mar-19 | BlackRock Advisors (UK) Limited | on mkt sell | 15 | ORD | -7,818 | -7,818 |
| 11-Mar-19 | BlackRock Advisors (UK) Limited | on mkt sell | 15 | ORD | -3,909 | -3,909 |
| 11-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 15 | ORD | 364 | 364 |
| 11-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 15 | ORD | 1,187 | 1,187 |
| 11-Mar-19 | BlackRock Advisors, LLC | on mkt sell | 15 | ORD | -869 | -869 |
| 11-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 2,536 | 2,536 |
| 11-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 9,064 | 9,064 |
| 12-Mar-19 | BlackRock Investment Management (Australia) Limited | on mkt buy | 14.78 | ORD | 1,718 | 1,718 |
| 12-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.83 | ORD | 1,568 | 1,568 |
| 12-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.83 | ORD | 1,456 | 1,456 |
| 12-Mar-19 | BlackRock Advisors (UK) Limited | on mkt buy | 14.83 | ORD | 734 | 734 |
| 12-Mar-19 | BlackRock Institutional Trust Company, National Association | on mkt buy | 14.83 | ORD | 37,169 | 37,169 |
| 12-Mar-19 | BlackRock Institutional Trust Company, National Association | on mkt sell | 14.83 | ORD | -891 | -891 |
| 12-Mar-19 | BlackRock Investment Management (Australia) Limited | on mkt sell | 14.72 | ORD | -4,179 | -4,179 |
| 12-Mar-19 | BlackRock Fund Advisors | in specie | n/a | ORD | 10,800 | 10,800 |

| Parties to the Derivative | | | |
|---|--|--------------|------------------------------------|
| Investment Manager / Agent | Fund | On Behalf of | Counterparty |
| BlackRock Institutional Trust Company, National Association | Global Alpha Opportunities Equity Fund Ltd | | Merrill Lynch International |
| BlackRock Institutional Trust Company, National Association | Global Alpha Opportunities Equity Fund Ltd | | Credit Suisse |
| BlackRock Institutional Trust Company, National Association | Global Alpha Opportunities Equity Fund Ltd | | Morgan Stanley & Co. International |
| BlackRock Institutional Trust Company, National Association | Global Alpha Opportunities Equity Fund Ltd | | HSBBK |
| BlackRock Institutional Trust Company, National Association | Global Alpha Opportunities Equity Fund Ltd | | UBS AG |
| BlackRock Institutional Trust Company, National Association | Global Alpha Opportunities Equity Fund Ltd | | JP Morgan |