

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549  
FORM N-PX  
ANNUAL REPORT OF PROXY VOTING RECORD  
OF  
REGISTERED MANAGEMENT INVESTMENT COMPANIES

INVESTMENT COMPANY ACT FILE NUMBER: 811-1027  
NAME OF REGISTRANT: VANGUARD WORLD FUND  
ADDRESS OF REGISTRANT: PO BOX 2600, VALLEY FORGE, PA 19482  
NAME AND ADDRESS OF AGENT FOR SERVICE: ANNE E. ROBINSON  
PO BOX 876  
VALLEY FORGE, PA 19482  
REGISTRANT'S TELEPHONE NUMBER, INCLUDING AREA CODE: (610) 669-1000  
DATE OF FISCAL YEAR END: AUGUST 31  
DATE OF REPORTING PERIOD: JULY 1, 2017 - JUNE 30, 2018

**FUND: VANGUARD COMMUNICATION SERVICES INDEX FUND**

**ISSUER:** AT&T Inc.  
**TICKER:** T **CUSIP:** 00206R102  
**MEETING DATE:** 4/27/2018

| PROPOSAL:  | PROPOSED BY | VOTED? | VOTE CAST | FOR/AGAINST<br>MGMT |
|--|-------------|--------|-----------|---------------------|
| PROPOSAL #1.1: ELECT DIRECTOR RANDALL L. STEPHENSON    | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.2: ELECT DIRECTOR SAMUEL A. DI PIAZZA, JR. | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.3: ELECT DIRECTOR RICHARD W. FISHER        | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.4: ELECT DIRECTOR SCOTT T. FORD            | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.5: ELECT DIRECTOR GLENN H. HUTCHINS        | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.6: ELECT DIRECTOR WILLIAM E. KENNARD       | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.7: ELECT DIRECTOR MICHAEL B. MCCALLISTER   | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.8: ELECT DIRECTOR BETH E. MOONEY           | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.9: ELECT DIRECTOR JOYCE M. ROCHE           | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.10: ELECT DIRECTOR MATTHEW K. ROSE         | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.11: ELECT DIRECTOR CYNTHIA B. TAYLOR       | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.12: ELECT DIRECTOR LAURA D'ANDREA TYSON    | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.13: ELECT DIRECTOR GEOFFREY Y. YANG        | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #2: RATIFY ERNST & YOUNG LLP AS AUDITORS      | ISSUER      | YES    | FOR       | FOR                 |

|   |             |     |         |     |
|---|-------------|-----|---------|-----|
| PROPOSAL #3: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION | ISSUER      | YES | FOR     | FOR |
| PROPOSAL #4: AMEND STOCK PURCHASE AND DEFERRAL PLAN                         | ISSUER      | YES | FOR     | FOR |
| PROPOSAL #5: APPROVE OMNIBUS STOCK PLAN                                     | ISSUER      | YES | FOR     | FOR |
| PROPOSAL #6: REPORT ON LOBBYING PAYMENTS AND POLICY                         | SHAREHOLDER | YES | AGAINST | FOR |
| PROPOSAL #7: AMEND PROXY ACCESS RIGHT                                       | SHAREHOLDER | YES | AGAINST | FOR |
| PROPOSAL #8: REQUIRE INDEPENDENT BOARD CHAIRMAN                             | SHAREHOLDER | YES | AGAINST | FOR |
| PROPOSAL #9: PROVIDE RIGHT TO ACT BY WRITTEN CONSENT                        | SHAREHOLDER | YES | AGAINST | FOR |

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**ISSUER:** ATN International, Inc.  
**TICKER:** ATNI **CUSIP:** 00215F107  
**MEETING DATE:** 6/12/2018

| <b>PROPOSAL:</b>   | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST MGMT</b> |
|--|--------------------|---------------|------------------|-------------------------|
| PROPOSAL #1a: ELECT DIRECTOR MARTIN L. BUDD                | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1b: ELECT DIRECTOR BERNARD J. BULKIN             | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1c: ELECT DIRECTOR MICHAEL T. FLYNN              | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1d: ELECT DIRECTOR RICHARD J. GANONG             | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1e: ELECT DIRECTOR JOHN C. KENNEDY               | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1f: ELECT DIRECTOR LIANE J. PELLETIER            | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1g: ELECT DIRECTOR MICHAEL T. PRIOR              | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1h: ELECT DIRECTOR CHARLES J. ROESSLEIN          | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #2: RATIFY PRICEWATERHOUSECOOPERS LLP AS AUDITORS | ISSUER             | YES           | FOR              | FOR                     |

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**ISSUER:** CenturyLink, Inc.  
**TICKER:** CTL **CUSIP:** 156700106  
**MEETING DATE:** 5/23/2018

| <b>PROPOSAL:</b>                                 | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST MGMT</b> |
|--|--------------------|---------------|------------------|-------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR MARTHA H. BEJAR    | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.2: ELECT DIRECTOR VIRGINIA BOULET    | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.3: ELECT DIRECTOR PETER C. BROWN     | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.4: ELECT DIRECTOR KEVIN P. CHILTON   | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.5: ELECT DIRECTOR STEVEN T. CLONTZ   | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.6: ELECT DIRECTOR T. MICHAEL GLENN   | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.7: ELECT DIRECTOR W. BRUCE HANKS     | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.8: ELECT DIRECTOR MARY L. LANDRIEU   | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.9: ELECT DIRECTOR HARVEY P. PERRY    | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.10: ELECT DIRECTOR GLEN F. POST, III | ISSUER             | YES           | FOR              | FOR                     |

|   |             |     |         |     |
|---|-------------|-----|---------|-----|
| PROPOSAL #1.11: ELECT DIRECTOR MICHAEL J. ROBERTS                           | ISSUER      | YES | FOR     | FOR |
| PROPOSAL #1.12: ELECT DIRECTOR LAURIE A. SIEGEL                             | ISSUER      | YES | FOR     | FOR |
| PROPOSAL #1.13: ELECT DIRECTOR JEFFREY K. STOREY                            | ISSUER      | YES | FOR     | FOR |
| PROPOSAL #2: RATIFY KPMG LLP AS AUDITORS                                    | ISSUER      | YES | FOR     | FOR |
| PROPOSAL #3: APPROVE OMNIBUS STOCK PLAN                                     | ISSUER      | YES | FOR     | FOR |
| PROPOSAL #4: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION | ISSUER      | YES | FOR     | FOR |
| PROPOSAL #5a: REPORT ON LOBBYING PAYMENTS AND POLICY                        | SHAREHOLDER | YES | AGAINST | FOR |
| PROPOSAL #5b: REPORT ON COMPANY'S BILLING PRACTICES                         | SHAREHOLDER | YES | AGAINST | FOR |

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**ISSUER:** Cincinnati Bell Inc.  
**TICKER:** CBB **CUSIP:** 171871502  
**MEETING DATE:** 5/1/2018

| <b>PROPOSAL:</b>  | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR PHILLIP R. COX                                | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.2: ELECT DIRECTOR JOHN W. ECK                                   | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.3: ELECT DIRECTOR LEIGH R. FOX                                  | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.4: ELECT DIRECTOR JAKKI L. HAUSSLER                             | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.5: ELECT DIRECTOR CRAIG F. MAIER                                | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.6: ELECT DIRECTOR RUSSEL P. MAYER                               | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.7: ELECT DIRECTOR THEODORE H. TORBECK                           | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.8: ELECT DIRECTOR LYNN A. WENTWORTH                             | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.9: ELECT DIRECTOR MARTIN J. YUDKOVITZ                           | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #2: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #3: PROVIDE PROXY ACCESS RIGHT                                     | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #4: RATIFY DELOITTE & TOUCHE LLP AS AUDITORS                       | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.1: ELECT DIRECTOR JAMES CHADWICK                                | SHAREHOLDER        | NO            | N/A              | N/A                         |
| PROPOSAL #1.2: ELECT DIRECTOR MATTHEW GOLDFARB                              | SHAREHOLDER        | NO            | N/A              | N/A                         |
| PROPOSAL #1.3: ELECT DIRECTOR JUSTYN R. PUTNAM                              | SHAREHOLDER        | NO            | N/A              | N/A                         |
| PROPOSAL #1.4: MANAGEMENT NOMINEE PHILLIP R. COX                            | SHAREHOLDER        | NO            | N/A              | N/A                         |
| PROPOSAL #1.5: MANAGEMENT NOMINEE JOHN W. ECK                               | SHAREHOLDER        | NO            | N/A              | N/A                         |
| PROPOSAL #1.6: MANAGEMENT NOMINEE LEIGH R. FOX                              | SHAREHOLDER        | NO            | N/A              | N/A                         |
| PROPOSAL #1.7: MANAGEMENT NOMINEE JAKKI L. HAUSSLER                         | SHAREHOLDER        | NO            | N/A              | N/A                         |
| PROPOSAL #1.8: MANAGEMENT NOMINEE LYNN A. WENTWORTH                         | SHAREHOLDER        | NO            | N/A              | N/A                         |
| PROPOSAL #1.9: MANAGEMENT NOMINEE MARTIN J. YUDKOVITZ                       | SHAREHOLDER        | NO            | N/A              | N/A                         |
| PROPOSAL #2: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION | ISSUER             | NO            | N/A              | N/A                         |

|   |        |    |     |     |
|---|--------|----|-----|-----|
| PROPOSAL #3: PROVIDE PROXY ACCESS RIGHT               | ISSUER | NO | N/A | N/A |
| PROPOSAL #4: RATIFY DELOITTE & TOUCHE LLP AS AUDITORS | ISSUER | NO | N/A | N/A |

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**ISSUER:** Cogent Communications Holdings, Inc.  
**TICKER:** CCOI **CUSIP:** 19239V302  
**MEETING DATE:** 5/2/2018

| <b>PROPOSAL:</b>  | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR DAVE SCHAEFFER                                | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.2: ELECT DIRECTOR STEVEN D. BROOKS                              | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.3: ELECT DIRECTOR TIMOTHY WEINGARTEN                            | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.4: ELECT DIRECTOR RICHARD T. LIEBHABER                          | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.5: ELECT DIRECTOR D. BLAKE BATH                                 | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.6: ELECT DIRECTOR MARC MONTAGNER                                | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #2: RATIFY ERNST & YOUNG LLP AS AUDITORS                           | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #3: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION | ISSUER             | YES           | FOR              | FOR                         |

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**ISSUER:** Consolidated Communications Holdings, Inc.  
**TICKER:** CNSL **CUSIP:** 209034107  
**MEETING DATE:** 4/30/2018

| <b>PROPOSAL:</b>  | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR RICHARD A. LUMPKIN                            | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.2: ELECT DIRECTOR TIMOTHY D. TARON                              | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.3: ELECT DIRECTOR WAYNE WILSON                                  | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #2: RATIFY ERNST & YOUNG LLP AS AUDITORS                           | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #3: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #4: AMEND OMNIBUS STOCK PLAN                                       | ISSUER             | YES           | FOR              | FOR                         |

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**ISSUER:** Frontier Communications Corporation  
**TICKER:** FTR **CUSIP:** 35906A306  
**MEETING DATE:** 5/9/2018

| <b>PROPOSAL:</b>                                  | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1a: ELECT DIRECTOR LEROY T. BARNES, JR. | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1b: ELECT DIRECTOR PETER C.B. BYNOE     | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1c: ELECT DIRECTOR DIANA S. FERGUSON    | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1d: ELECT DIRECTOR EDWARD FRAIOLI       | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1e: ELECT DIRECTOR DANIEL J. MCCARTHY   | ISSUER             | YES           | FOR              | FOR                         |

|   |        |     |     |     |
|---|--------|-----|-----|-----|
| PROPOSAL #1f: ELECT DIRECTOR PAMELA D.A. REEVE                              | ISSUER | YES | FOR | FOR |
| PROPOSAL #1g: ELECT DIRECTOR VIRGINIA P. RUESTERHOLZ                        | ISSUER | YES | FOR | FOR |
| PROPOSAL #1h: ELECT DIRECTOR HOWARD L. SCHROTT                              | ISSUER | YES | FOR | FOR |
| PROPOSAL #1i: ELECT DIRECTOR MARK SHAPIRO                                   | ISSUER | YES | FOR | FOR |
| PROPOSAL #2: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION | ISSUER | YES | FOR | FOR |
| PROPOSAL #3: RATIFY KPMG LLP AS AUDITORS                                    | ISSUER | YES | FOR | FOR |

ISSUER: GCI Liberty, Inc.  
TICKER: GLIBA CUSIP: 36164V305

MEETING DATE: 5/7/2018

| PROPOSAL:                             | PROPOSED BY | VOTED? | VOTE CAST | FOR/AGAINST MGMT |
|---------------------------------------|-------------|--------|-----------|------------------|
| PROPOSAL #1: APPROVE MERGER AGREEMENT | ISSUER      | YES    | FOR       | FOR              |
| PROPOSAL #2: ADJOURN MEETING          | ISSUER      | YES    | FOR       | FOR              |

ISSUER: GCI Liberty, Inc.  
TICKER: GLIBA CUSIP: 36164V305

MEETING DATE: 6/25/2018

| PROPOSAL:                                       | PROPOSED BY | VOTED? | VOTE CAST | FOR/AGAINST MGMT |
|---|-------------|--------|-----------|------------------|
| PROPOSAL #1.1: ELECT DIRECTOR JOHN C. MALONE    | ISSUER      | YES    | FOR       | FOR              |
| PROPOSAL #1.2: ELECT DIRECTOR GREGORY B. MAFFEI | ISSUER      | YES    | FOR       | FOR              |
| PROPOSAL #1.3: ELECT DIRECTOR RONALD A. DUNCAN  | ISSUER      | YES    | FOR       | FOR              |
| PROPOSAL #1.4: ELECT DIRECTOR GREGG L. ENGLS    | ISSUER      | YES    | FOR       | FOR              |
| PROPOSAL #1.5: ELECT DIRECTOR DONNE F. FISHER   | ISSUER      | YES    | FOR       | FOR              |
| PROPOSAL #1.6: ELECT DIRECTOR RICHARD R. GREEN  | ISSUER      | YES    | FOR       | FOR              |
| PROPOSAL #1.7: ELECT DIRECTOR SUE ANN HAMILTON  | ISSUER      | YES    | FOR       | FOR              |
| PROPOSAL #2: RATIFY KPMG LLP AS AUDITORS        | ISSUER      | YES    | FOR       | FOR              |
| PROPOSAL #3: APPROVE OMNIBUS STOCK PLAN         | ISSUER      | YES    | AGAINST   | AGAINST          |

ISSUER: GCI Liberty, Inc.  
TICKER: GLIBA CUSIP: 36164V503

MEETING DATE: 5/7/2018

| PROPOSAL:                             | PROPOSED BY | VOTED? | VOTE CAST | FOR/AGAINST MGMT |
|---------------------------------------|-------------|--------|-----------|------------------|
| PROPOSAL #1: APPROVE MERGER AGREEMENT | ISSUER      | YES    | FOR       | FOR              |
| PROPOSAL #2: ADJOURN MEETING          | ISSUER      | YES    | FOR       | FOR              |

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**ISSUER:** General Communication, Inc.  
**TICKER:** GNCMA **CUSIP:** 369385109  
**MEETING DATE:** 2/2/2018

| <b>PROPOSAL:</b>   | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|--|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1: APPROVE REORGANIZATION AGREEMENT                                | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #2: APPROVE THE ADOPTION OF THE RESTATED GCI LIBERTY, INC. ARTICLES | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #3: ISSUE SHARES IN CONNECTION WITH REORGANIZATION AGREEMENT        | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #4: ADVISORY VOTE ON GOLDEN PARACHUTES                              | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #5: ADJOURN MEETING   | ISSUER             | YES           | FOR              | FOR                         |

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**ISSUER:** Globalstar, Inc.  
**TICKER:** GSAT **CUSIP:** 378973408  
**MEETING DATE:** 5/22/2018

| <b>PROPOSAL:</b>                                  | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1a: ELECT DIRECTOR WILLIAM A. HASLER    | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1b: ELECT DIRECTOR JAMES MONROE, III    | ISSUER             | YES           | AGAINST          | AGAINST                     |
| PROPOSAL #1c: ELECT DIRECTOR KENNETH M. YOUNG     | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #2: RATIFY CROWE HORWATH LLP AS AUDITORS | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #3: OTHER BUSINESS                       | ISSUER             | YES           | AGAINST          | AGAINST                     |

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**ISSUER:** IDT Corporation  
**TICKER:** IDT **CUSIP:** 448947507  
**MEETING DATE:** 12/14/2017

| <b>PROPOSAL:</b>   | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|--|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR MICHAEL CHENKIN                | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.2: ELECT DIRECTOR ERIC F. COSENTINO              | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.3: ELECT DIRECTOR HOWARD S. JONAS                | ISSUER             | YES           | AGAINST          | AGAINST                     |
| PROPOSAL #1.4: ELECT DIRECTOR BILL PEREIRA                   | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.5: ELECT DIRECTOR JUDAH SCHORR                   | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #2: AMEND OMNIBUS STOCK PLAN                        | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #3: APPROVE GRANT OF OPTIONS TO HOWARD S. JONAS     | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #4: APPROVE AND RATIFY THE HOWARD JONAS STOCK SALES | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #5: RATIFY BDO USA, LLP AS AUDITORS                 | ISSUER             | YES           | FOR              | FOR                         |

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**ISSUER:** Iridium Communications Inc.  
**TICKER:** IRDM **CUSIP:** 46269C102  
**MEETING DATE:** 5/17/2018

| <b>PROPOSAL:</b>  | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR ROBERT H. NIEHAUS                             | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.2: ELECT DIRECTOR THOMAS C. CANFIELD                            | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.3: ELECT DIRECTOR MATTHEW J. DESCH                              | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.4: ELECT DIRECTOR THOMAS J. FITZPATRICK                         | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.5: ELECT DIRECTOR JANE L. HARMAN                                | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.6: ELECT DIRECTOR ALVIN B. KRONGARD                             | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.7: ELECT DIRECTOR ERIC T. OLSON                                 | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.8: ELECT DIRECTOR STEVEN B. PFEIFFER                            | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.9: ELECT DIRECTOR PARKER W. RUSH                                | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.10: ELECT DIRECTOR HENRIK O. SCHLIEMANN                         | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.11: ELECT DIRECTOR S. SCOTT SMITH                               | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.12: ELECT DIRECTOR BARRY J. WEST                                | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #2: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #3: RATIFY ERNST & YOUNG LLP AS AUDITORS                           | ISSUER             | YES           | FOR              | FOR                         |

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**ISSUER:** ORBCOMM Inc.  
**TICKER:** ORBC **CUSIP:** 68555P100  
**MEETING DATE:** 4/18/2018

| <b>PROPOSAL:</b>  | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR JEROME B. EISENBERG                           | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.2: ELECT DIRECTOR MARCO FUCHS                                   | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #2: RATIFY GRANT THORNTON LLP AS AUDITORS                          | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #3: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION | ISSUER             | YES           | FOR              | FOR                         |

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**ISSUER:** pdvWireless, Inc.  
**TICKER:** PDVW **CUSIP:** 69290R104  
**MEETING DATE:** 8/3/2017

| <b>PROPOSAL:</b>                                | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR BRIAN D. MCAULEY  | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.2: ELECT DIRECTOR MORGAN E. O'BRIEN | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.3: ELECT DIRECTOR JOHN C. PESCATORE | ISSUER             | YES           | FOR              | FOR                         |

|   |        |     |     |     |
|---|--------|-----|-----|-----|
| PROPOSAL #1.4: ELECT DIRECTOR T. CLARK AKERS        | ISSUER | YES | FOR | FOR |
| PROPOSAL #1.5: ELECT DIRECTOR MARK HENNESSY         | ISSUER | YES | FOR | FOR |
| PROPOSAL #1.6: ELECT DIRECTOR PAUL SALEH            | ISSUER | YES | FOR | FOR |
| PROPOSAL #1.7: ELECT DIRECTOR PETER G. SCHIFF       | ISSUER | YES | FOR | FOR |
| PROPOSAL #1.8: ELECT DIRECTOR JOHN C. SITES         | ISSUER | YES | FOR | FOR |
| PROPOSAL #2: RATIFY PKF O'CONNOR DAVIES AS AUDITORS | ISSUER | YES | FOR | FOR |

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**ISSUER:** Shenandoah Telecommunications Company  
**TICKER:** SHEN **CUSIP:** 82312B106

**MEETING DATE:** 5/1/2018

| <b>PROPOSAL:</b>  | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR THOMAS A. BECKETT                             | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.2: ELECT DIRECTOR RICHARD L. KOONTZ, JR.                        | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.3: ELECT DIRECTOR LEIGH ANN SCHULTZ                             | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #2: RATIFY KPMG LLP AS AUDITORS                                    | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #3: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION | ISSUER             | YES           | FOR              | FOR                         |

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**ISSUER:** Spok Holdings, Inc.

**TICKER:** SPOK **CUSIP:** 84863T106

**MEETING DATE:** 7/24/2017

| <b>PROPOSAL:</b>  | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR N. BLAIR BUTTERFIELD                          | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.2: ELECT DIRECTOR STACIA A. HYLTON                              | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.3: ELECT DIRECTOR VINCENT D. KELLY                              | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.4: ELECT DIRECTOR BRIAN O'REILLY                                | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.5: ELECT DIRECTOR MATTHEW ORISTANO                              | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.6: ELECT DIRECTOR SAMME L. THOMPSON                             | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.7: ELECT DIRECTOR ROYCE YUDKOFF                                 | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #2: RATIFY GRANT THORNTON LLP AS AUDITORS                          | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #3: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #4: ADVISORY VOTE ON SAY ON PAY FREQUENCY                          | ISSUER             | YES           | ONE YEAR         | FOR                         |
| PROPOSAL #5: AMEND OMNIBUS STOCK PLAN                                       | ISSUER             | YES           | FOR              | FOR                         |



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**ISSUER:** Sprint Corporation  
**TICKER:** S **CUSIP:** 85207U105  
**MEETING DATE:** 8/3/2017

| <b>PROPOSAL:</b>  | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR GORDON BETHUNE                                | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.2: ELECT DIRECTOR MARCELO CLAURE                                | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.3: ELECT DIRECTOR PATRICK DOYLE                                 | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.4: ELECT DIRECTOR RONALD FISHER                                 | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.5: ELECT DIRECTOR JULIUS GENACHOWSKI                            | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.6: ELECT DIRECTOR MICHAEL MULLEN                                | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.7: ELECT DIRECTOR MASAYOSHI SON                                 | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.8: ELECT DIRECTOR SARA MARTINEZ TUCKER                          | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #2: RATIFY DELOITTE & TOUCHE LLP AS AUDITORS                       | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #3: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #4: ADVISORY VOTE ON SAY ON PAY FREQUENCY                          | ISSUER             | YES           | ONE YEAR         | FOR                         |

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**ISSUER:** Straight Path Communications Inc.  
**TICKER:** STRP **CUSIP:** 862578101  
**MEETING DATE:** 8/2/2017

| <b>PROPOSAL:</b>                                | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1: APPROVE MERGER AGREEMENT           | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #2: ADVISORY VOTE ON GOLDEN PARACHUTES | ISSUER             | YES           | AGAINST          | AGAINST                     |
| PROPOSAL #3: ADJOURN MEETING                    | ISSUER             | YES           | FOR              | FOR                         |

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**ISSUER:** Straight Path Communications Inc.  
**TICKER:** STRP **CUSIP:** 862578101  
**MEETING DATE:** 2/6/2018

| <b>PROPOSAL:</b>                              | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR DAVIDI JONAS    | ISSUER             | YES           | AGAINST          | AGAINST                     |
| PROPOSAL #1.2: ELECT DIRECTOR K. CHRIS TODD   | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.3: ELECT DIRECTOR WILLIAM F. WELD | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.4: ELECT DIRECTOR FRED S. ZEIDMAN | ISSUER             | YES           | FOR              | FOR                         |

ISSUER: Telephone and Data Systems, Inc.  
TICKER: TDS CUSIP: 879433829  
MEETING DATE: 5/24/2018

| PROPOSAL:   | PROPOSED BY | VOTED? | VOTE CAST | FOR/AGAINST<br>MGMT |
|---|-------------|--------|-----------|---------------------|
| PROPOSAL #1.1: ELECT DIRECTOR CLARENCE A. DAVIS                                     | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.2: ELECT DIRECTOR KIMBERLY D. DIXON                                     | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.3: ELECT DIRECTOR MITCHELL H. SARANOW                                   | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.4: ELECT DIRECTOR GARY L. SUGARMAN                                      | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #2: RATIFY PRICEWATERHOUSECOOPERS LLP AS AUDITORS                          | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #3: AMEND NON-EMPLOYEE DIRECTOR RESTRICTED STOCK PLAN                      | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #4: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION         | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #5: APPROVE RECAPITALIZATION PLAN FOR ALL STOCK TO HAVE ONE-VOTE PER SHARE | SHAREHOLDER | YES    | FOR       | AGAINST             |

ISSUER: T-Mobile US, Inc.  
TICKER: TMUS CUSIP: 872590104  
MEETING DATE: 6/13/2018

| PROPOSAL:  | PROPOSED BY | VOTED? | VOTE CAST | FOR/AGAINST<br>MGMT |
|--|-------------|--------|-----------|---------------------|
| PROPOSAL #1.1: ELECT DIRECTOR THOMAS DANNENFELDT           | ISSUER      | YES    | WITHHOLD  | AGAINST             |
| PROPOSAL #1.2: ELECT DIRECTOR SRIKANT M. DATAR             | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.3: ELECT DIRECTOR LAWRENCE H. GUFFEY           | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.4: ELECT DIRECTOR TIMOTHEUS HOTTGES            | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.5: ELECT DIRECTOR BRUNO JACOBFEUERBORN         | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.6: ELECT DIRECTOR RAPHAEL KUBLER               | ISSUER      | YES    | WITHHOLD  | AGAINST             |
| PROPOSAL #1.7: ELECT DIRECTOR THORSTEN LANGHEIM            | ISSUER      | YES    | WITHHOLD  | AGAINST             |
| PROPOSAL #1.8: ELECT DIRECTOR JOHN J. LEGERE               | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.9: ELECT DIRECTOR G. MICHAEL (MIKE) SIEVERT    | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.1: ELECT DIRECTOR OLAF SWANTEE                 | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.11: ELECT DIRECTOR TERESA A. TAYLOR            | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #1.12: ELECT DIRECTOR KELVIN R. WESTBROOK         | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #2: RATIFY PRICEWATERHOUSECOOPERS LLP AS AUDITORS | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #3: AMEND OMNIBUS STOCK PLAN                      | ISSUER      | YES    | FOR       | FOR                 |
| PROPOSAL #4: ADOPT PROXY ACCESS RIGHT                      | SHAREHOLDER | YES    | FOR       | AGAINST             |
| PROPOSAL #5: PRO-RATA VESTING OF EQUITY AWARDS             | SHAREHOLDER | YES    | AGAINST   | FOR                 |

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**ISSUER:** United States Cellular Corporation  
**TICKER:** USM **CUSIP:** 911684108  
**MEETING DATE:** 5/22/2018

| <b>PROPOSAL:</b>  | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR J. SAMUEL CROWLEY                             | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.2: ELECT DIRECTOR GREGORY P. JOSEFOWICZ                         | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.3: ELECT DIRECTOR CECELIA D. STEWART                            | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #2: RATIFY PRICEWATERHOUSECOOPERS LLP AS AUDITORS                  | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #3: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION | ISSUER             | YES           | FOR              | FOR                         |

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**ISSUER:** Vanguard Communication Services Index Fund  
**TICKER:** VOX **CUSIP:** 92204A884  
**MEETING DATE:** 11/15/2017

| <b>PROPOSAL:</b>  | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR MORTIMER J. BUCKLEY   | ISSUER             | YES           | PROPORTIONAL     | N/A                         |
| PROPOSAL #1.2: ELECT DIRECTOR EMERSON U. FULLWOOD   | ISSUER             | YES           | PROPORTIONAL     | N/A                         |
| PROPOSAL #1.3: ELECT DIRECTOR AMY GUTMANN   | ISSUER             | YES           | PROPORTIONAL     | N/A                         |
| PROPOSAL #1.4: ELECT DIRECTOR JOANN HEFFERNAN HEISEN  | ISSUER             | YES           | PROPORTIONAL     | N/A                         |
| PROPOSAL #1.5: ELECT DIRECTOR F. JOSEPH LOUGHREY  | ISSUER             | YES           | PROPORTIONAL     | N/A                         |
| PROPOSAL #1.6: ELECT DIRECTOR MARK LOUGHRIDGE   | ISSUER             | YES           | PROPORTIONAL     | N/A                         |
| PROPOSAL #1.7: ELECT DIRECTOR SCOTT C. MALPASS  | ISSUER             | YES           | PROPORTIONAL     | N/A                         |
| PROPOSAL #1.8: ELECT DIRECTOR F. WILLIAM MCNABB, III  | ISSUER             | YES           | PROPORTIONAL     | N/A                         |
| PROPOSAL #1.9: ELECT DIRECTOR DEANNA MULLIGAN   | ISSUER             | YES           | PROPORTIONAL     | N/A                         |
| PROPOSAL #1.10: ELECT DIRECTOR ANDRE F. PEROLD  | ISSUER             | YES           | PROPORTIONAL     | N/A                         |
| PROPOSAL #1.11: ELECT DIRECTOR SARAH BLOOM RASKIN   | ISSUER             | YES           | PROPORTIONAL     | N/A                         |
| PROPOSAL #1.12: ELECT DIRECTOR PETER F. VOLANAKIS   | ISSUER             | YES           | PROPORTIONAL     | N/A                         |
| PROPOSAL #2: APPROVE MANAGER OF MANAGERS ARRANGEMENT WITH THIRD-PARTY INVESTMENT ADVISORS       | ISSUER             | YES           | PROPORTIONAL     | N/A                         |
| PROPOSAL #3: APPROVE MANAGER OF MANAGERS ARRANGEMENT WITH WHOLLY-OWNED SUBSIDIARIES OF VANGUARD | ISSUER             | YES           | PROPORTIONAL     | N/A                         |

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**ISSUER:** Vanguard Market Liquidity Fund  
**TICKER:** N/A **CUSIP:** 92202X209  
**MEETING DATE:** 11/15/2017

| <b>PROPOSAL:</b>                                  | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR MORTIMER J. BUCKLEY | ISSUER             | YES           | PROPORTIONAL     | N/A                         |
| PROPOSAL #1.2: ELECT DIRECTOR EMERSON U. FULLWOOD | ISSUER             | YES           | PROPORTIONAL     | N/A                         |

|   |        |     |              |     |
|---|--------|-----|--------------|-----|
| PROPOSAL #1.3: ELECT DIRECTOR AMY GUTMANN   | ISSUER | YES | PROPORTIONAL | N/A |
| PROPOSAL #1.4: ELECT DIRECTOR JOANN HEFFERNAN HEISEN  | ISSUER | YES | PROPORTIONAL | N/A |
| PROPOSAL #1.5: ELECT DIRECTOR F. JOSEPH LOUGHREY  | ISSUER | YES | PROPORTIONAL | N/A |
| PROPOSAL #1.6: ELECT DIRECTOR MARK LOUGHBRIDGE  | ISSUER | YES | PROPORTIONAL | N/A |
| PROPOSAL #1.7: ELECT DIRECTOR SCOTT C. MALPASS  | ISSUER | YES | PROPORTIONAL | N/A |
| PROPOSAL #1.8: ELECT DIRECTOR F. WILLIAM MCNABB, III  | ISSUER | YES | PROPORTIONAL | N/A |
| PROPOSAL #1.9: ELECT DIRECTOR DEANNA MULLIGAN   | ISSUER | YES | PROPORTIONAL | N/A |
| PROPOSAL #1.10: ELECT DIRECTOR ANDRE F. PEROLD  | ISSUER | YES | PROPORTIONAL | N/A |
| PROPOSAL #1.11: ELECT DIRECTOR SARAH BLOOM RASKIN   | ISSUER | YES | PROPORTIONAL | N/A |
| PROPOSAL #1.12: ELECT DIRECTOR PETER F. VOLANAKIS   | ISSUER | YES | PROPORTIONAL | N/A |
| PROPOSAL #3: APPROVE MANAGER OF MANAGERS ARRANGEMENT WITH WHOLLY-OWNED SUBSIDIARIES OF VANGUARD | ISSUER | YES | PROPORTIONAL | N/A |

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**ISSUER:** Verizon Communications Inc.  
**TICKER:** VZ **CUSIP:** 92343V104  
**MEETING DATE:** 5/3/2018

| <b>PROPOSAL:</b>  | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST MGMT</b> |
|---|--------------------|---------------|------------------|-------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR SHELLYE L. ARCHAMBEAU   | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.2: ELECT DIRECTOR MARK T. BERTOLINI   | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.3: ELECT DIRECTOR RICHARD L. CARRION  | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.4: ELECT DIRECTOR MELANIE L. HEALEY   | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.5: ELECT DIRECTOR M. FRANCES KEETH  | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.6: ELECT DIRECTOR LOWELL C. MCADAM  | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.7: ELECT DIRECTOR CLARENCE OTIS, JR.  | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.8: ELECT DIRECTOR RODNEY E. SLATER  | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.9: ELECT DIRECTOR KATHRYN A. TESIJA   | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.10: ELECT DIRECTOR GREGORY D. WASSON  | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #1.11: ELECT DIRECTOR GREGORY G. WEAVER  | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #2: RATIFY ERNST & YOUNG AS AUDITORS   | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #3: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION   | ISSUER             | YES           | FOR              | FOR                     |
| PROPOSAL #4: AMEND BYLAWS -- CALL SPECIAL MEETINGS  | SHAREHOLDER        | YES           | AGAINST          | FOR                     |
| PROPOSAL #5: REPORT ON LOBBYING PAYMENTS AND POLICY   | SHAREHOLDER        | YES           | AGAINST          | FOR                     |
| PROPOSAL #6: REQUIRE INDEPENDENT BOARD CHAIRMAN   | SHAREHOLDER        | YES           | AGAINST          | FOR                     |
| PROPOSAL #7: ASSESS FEASIBILITY OF CYBER SECURITY AND DATA PRIVACY AS A PERFORMANCE MEASURE FOR SENIOR EXECUTIVE COMPENSATION | SHAREHOLDER        | YES           | AGAINST          | FOR                     |
| PROPOSAL #8: CLAWBACK OF INCENTIVE PAYMENTS   | SHAREHOLDER        | YES           | AGAINST          | FOR                     |



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**ISSUER:** Zayo Group Holdings, Inc.  
**TICKER:** ZAYO **CUSIP:** 98919V105  
**MEETING DATE:** 11/2/2017

| <b>PROPOSAL:</b>  | <b>PROPOSED BY</b> | <b>VOTED?</b> | <b>VOTE CAST</b> | <b>FOR/AGAINST<br/>MGMT</b> |
|---|--------------------|---------------|------------------|-----------------------------|
| PROPOSAL #1.1: ELECT DIRECTOR PHIL CANFIELD                                 | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.2: ELECT DIRECTOR STEVE KAPLAN                                  | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #1.3: ELECT DIRECTOR LINDA ROTTENBERG                              | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #2: RATIFY KPMG LLP AS AUDITORS                                    | ISSUER             | YES           | FOR              | FOR                         |
| PROPOSAL #3: ADVISORY VOTE TO RATIFY NAMED EXECUTIVE OFFICERS' COMPENSATION | ISSUER             | YES           | AGAINST          | AGAINST                     |
| PROPOSAL #4: AMEND OMNIBUS STOCK PLAN                                       | ISSUER             | YES           | AGAINST          | AGAINST                     |

**SIGNATURES**

Pursuant to the requirements of the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

VANGUARD WORLD FUND

By: /s/Mortimer J. Buckley

Mortimer J. Buckley\*

Chief Executive Officer, President, and Trustee

Date: August 29, 2018

\*By: /s/Anne E. Robinson

Anne E. Robinson, pursuant to a Power of Attorney filed on January 18, 2018,  
see File Number 33-32216. Incorporated by Reference.