

BLACKROCK MUNIHOLDINGS INVESTMENT QUALITY FUND

Form NSAR-A

April 28, 2016

PAGE 1  
000 A000000 02/29/2016  
000 C000000 1045126  
000 D000000 N  
000 E000000 NF  
000 F000000 Y  
000 G000000 N  
000 H000000 N  
000 I000000 6.1  
000 J000000 A  
001 A000000 BLACKROCK MUNIHOLDINGS INVEST. QUALITY FUND  
001 B000000 811-08349  
001 C000000 8004417762  
002 A000000 100 BELLEVUE PARKWAY  
002 B000000 WILMINGTON  
002 C000000 DE  
002 D010000 19809  
003 000000 N  
004 000000 N  
005 000000 N  
006 000000 N  
007 A000000 N  
007 B000000 0  
007 C010100 1  
008 A000001 BLACKROCK ADVISORS, LLC  
008 B000001 A  
008 C000001 801-47710  
008 D010001 WILMINGTON  
008 D020001 DE  
008 D030001 19809  
012 A000001 COMPUTERSHARE TRUST COMPANY, N.A. (COMMON)  
012 B000001 85-11340  
012 C010001 CANTON  
012 C020001 MA  
012 C030001 02021  
012 A000002 THE BANK OF NEW YORK MELLON (PREFERRED)  
012 B000002 85-05006  
012 C010002 NEW YORK  
012 C020002 NY  
012 C030002 10289  
013 A000001 DELOITTE & TOUCHE LLP  
013 B010001 BOSTON  
013 B020001 MA  
013 B030001 02116  
014 A000001 BLACKROCK EXECUTION SERVICES  
014 B000001 8-48719  
014 A000002 BLACKROCK INVESTMENTS, LLC  
014 B000002 8-48436  
014 A000003 HARRIS WILLIAMS LLC  
014 B000003 8-53380  
014 A000004 PNC CAPITAL MARKETS, INC.  
014 B000004 8-32493  
PAGE 2  
014 A000005 PNC INVESTMENTS LLC  
014 B000005 8-66195  
014 A000006 SOLEBURY CAPITAL, LLC  
014 B000006 8-67548  
015 A000001 STATE STREET BANK AND TRUST COMPANY  
015 B000001 C

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015 C010001 BOSTON  
 015 C020001 MA  
 015 C030001 02110  
 015 E010001 X  
 018 000000 Y  
 019 A000000 Y  
 019 B000000 283  
 019 C000000 BLKRKADVSR  
 020 A000001 BANK OF AMERICA CORP  
 020 B000001 56-0906609  
 020 C000001 3  
 021 000000 3  
 022 A000001 FFI INSTITUTIONAL TAX-EXEMPT FUND  
 022 B000001 22-2509978  
 022 C000001 53172  
 022 D000001 56847  
 022 A000002 JEFFERIES & COMPANY INC  
 022 B000002 95-2622900  
 022 C000002 20864  
 022 D000002 26650  
 022 A000003 OPPENHEIMER + CO. INC.  
 022 B000003 13-2798343  
 022 C000003 24239  
 022 D000003 21426  
 022 A000004 CITIGROUP GLOBAL MARKETS INC  
 022 B000004 11-2418191  
 022 C000004 17494  
 022 D000004 15175  
 022 A000005 BLACKROCK LIQUIDITY FUNDS, MUNICASH  
 022 B000005 52-0983343  
 022 C000005 17659  
 022 D000005 12393  
 022 A000006 STIFEL NICOLAUS & COMPANY INCORPORATED  
 022 B000006 43-0538770  
 022 C000006 8725  
 022 D000006 17605  
 022 A000007 MORGAN STANLEY  
 022 B000007 36-3145972  
 022 C000007 14900  
 022 D000007 3926  
 022 A000008 PERSHING LLC  
 022 B000008 13-2741729  
 022 C000008 0  
 022 D000008 13428  
 022 A000009 BANK OF AMERICA CORP  
 PAGE 3  
 022 B000009 56-0906609  
 022 C000009 10161  
 022 D000009 0  
 022 A000010 RAYMOND JAMES FINANCIAL INC  
 022 B000010 59-1517485  
 022 C000010 4808  
 022 D000010 3096  
 023 C000000 183157  
 023 D000000 183858  
 024 000000 N  
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 026 A000000 N  
 026 B000000 N  
 026 C000000 N  
 026 D000000 Y  
 026 E000000 N

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|        |         |   |       |
|--------|---------|---|-------|
| 026    | F000000 | N |       |
| 026    | G010000 | N |       |
| 026    | G020000 | N |       |
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| PAGE 4 |         |   |       |
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| 042    | H000000 |   | 0     |
| 043    | 000000  |   | 0     |
| 044    | 000000  |   | 0     |
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| 046    | 000000  | N |       |
| 047    | 000000  | Y |       |
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| 048    | A010000 |   | 0     |
| 048    | A020000 |   | 0.000 |
| 048    | B010000 |   | 0     |

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|     |         |       |   |
|-----|---------|-------|---|
| 048 | B020000 | 0.000 |   |
| 048 | C010000 |       | 0 |
| 048 | C020000 | 0.000 |   |
| 048 | D010000 |       | 0 |
| 048 | D020000 | 0.000 |   |
| 048 | E010000 |       | 0 |
| 048 | E020000 | 0.000 |   |
| 048 | F010000 |       | 0 |
| 048 | F020000 | 0.000 |   |
| 048 | G010000 |       | 0 |
| 048 | G020000 | 0.000 |   |
| 048 | H010000 |       | 0 |
| 048 | H020000 | 0.000 |   |
| 048 | I010000 |       | 0 |
| 048 | I020000 | 0.000 |   |
| 048 | J010000 |       | 0 |
| 048 | J020000 | 0.000 |   |
| 048 | K010000 |       | 0 |
| 048 | K020000 | 0.000 |   |
| 049 | 000000  | N     |   |
| 050 | 000000  | N     |   |
| 051 | 000000  | N     |   |
| 052 | 000000  | N     |   |
| 053 | A000000 | Y     |   |
| 053 | B000000 | Y     |   |
|     | PAGE    | 5     |   |
| 053 | C000000 | N     |   |
| 054 | A000000 | Y     |   |
| 054 | B000000 | Y     |   |
| 054 | C000000 | N     |   |
| 054 | D000000 | N     |   |
| 054 | E000000 | N     |   |
| 054 | F000000 | N     |   |
| 054 | G000000 | N     |   |
| 054 | H000000 | Y     |   |
| 054 | I000000 | N     |   |
| 054 | J000000 | Y     |   |
| 054 | K000000 | N     |   |
| 054 | L000000 | N     |   |
| 054 | M000000 | Y     |   |
| 054 | N000000 | N     |   |
| 055 | A000000 | N     |   |
| 055 | B000000 | N     |   |
| 056 | 000000  | Y     |   |
| 057 | 000000  | N     |   |
| 058 | A000000 | N     |   |
| 059 | 000000  | Y     |   |
| 060 | A000000 | N     |   |
| 060 | B000000 | N     |   |
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| 062 | B000000 | 0.0   |   |
| 062 | C000000 | 0.0   |   |
| 062 | D000000 | 0.0   |   |
| 062 | E000000 | 0.0   |   |
| 062 | F000000 | 0.0   |   |
| 062 | G000000 | 0.0   |   |
| 062 | H000000 | 0.0   |   |
| 062 | I000000 | 0.0   |   |
| 062 | J000000 | 0.0   |   |
| 062 | K000000 | 0.0   |   |
| 062 | L000000 | 0.9   |   |

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|     |         |        |
|-----|---------|--------|
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| 062 | N000000 | 0.0    |
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| 062 | Q000000 | 0.0    |
| 062 | R000000 | 0.0    |
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| 063 | B000000 | 20.8   |
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| 064 | B000000 | N      |
| 066 | A000000 | N      |
| 067 | 000000  | N      |
| 068 | A000000 | N      |
| 068 | B000000 | N      |
| 069 | 000000  | N      |
|     | PAGE    | 6      |
| 070 | A010000 | Y      |
| 070 | A020000 | N      |
| 070 | B010000 | N      |
| 070 | B020000 | N      |
| 070 | C010000 | Y      |
| 070 | C020000 | N      |
| 070 | D010000 | N      |
| 070 | D020000 | N      |
| 070 | E010000 | Y      |
| 070 | E020000 | Y      |
| 070 | F010000 | N      |
| 070 | F020000 | N      |
| 070 | G010000 | Y      |
| 070 | G020000 | N      |
| 070 | H010000 | N      |
| 070 | H020000 | N      |
| 070 | I010000 | N      |
| 070 | I020000 | N      |
| 070 | J010000 | Y      |
| 070 | J020000 | N      |
| 070 | K010000 | Y      |
| 070 | K020000 | Y      |
| 070 | L010000 | N      |
| 070 | L020000 | N      |
| 070 | M010000 | N      |
| 070 | M020000 | N      |
| 070 | N010000 | Y      |
| 070 | N020000 | N      |
| 070 | O010000 | Y      |
| 070 | O020000 | N      |
| 070 | P010000 | Y      |
| 070 | P020000 | N      |
| 070 | Q010000 | N      |
| 070 | Q020000 | N      |
| 070 | R010000 | Y      |
| 070 | R020000 | N      |
| 071 | A000000 | 111370 |
| 071 | B000000 | 118011 |
| 071 | C000000 | 926679 |
| 071 | D000000 | 12     |
| 072 | A000000 | 6      |
| 072 | B000000 | 21020  |
| 072 | C000000 | 0      |
| 072 | D000000 | 0      |
| 072 | E000000 | 0      |
| 072 | F000000 | 2566   |

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|             |    |
|-------------|----|
| 072 G000000 | 60 |
| 072 H000000 | 0  |
| 072 I000000 | 23 |
| 072 J000000 | 20 |
| 072 K000000 | 0  |

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|             |        |
|-------------|--------|
| 072 L000000 | 7      |
| 072 M000000 | 25     |
| 072 N000000 | 5      |
| 072 O000000 | 0      |
| 072 P000000 | 1540   |
| 072 Q000000 | 0      |
| 072 R000000 | 32     |
| 072 S000000 | 23     |
| 072 T000000 | 0      |
| 072 U000000 | 0      |
| 072 V000000 | 0      |
| 072 W000000 | 72     |
| 072 X000000 | 4373   |
| 072 Y000000 | 123    |
| 072 Z000000 | 16770  |
| 072AA000000 | 14     |
| 072BB000000 | 0      |
| 072CC010000 | 12435  |
| 072CC020000 | 0      |
| 072DD010000 | 16220  |
| 072DD020000 | 0      |
| 072EE000000 | 0      |
| 073 A010000 | 0.4290 |
| 073 A020000 | 0.0000 |
| 073 B000000 | 0.0000 |
| 073 C000000 | 0.0000 |
| 074 A000000 | 529    |
| 074 B000000 | 0      |
| 074 C000000 | 0      |
| 074 D000000 | 929331 |
| 074 E000000 | 0      |
| 074 F000000 | 0      |
| 074 G000000 | 0      |
| 074 H000000 | 0      |
| 074 I000000 | 5266   |
| 074 J000000 | 6973   |
| 074 K000000 | 0      |
| 074 L000000 | 10702  |
| 074 M000000 | 460    |
| 074 N000000 | 953261 |
| 074 O000000 | 7294   |
| 074 P000000 | 396    |
| 074 Q000000 | 0      |
| 074 R010000 | 0      |
| 074 R020000 | 0      |
| 074 R030000 | 0      |
| 074 R040000 | 84085  |
| 074 S000000 | 274600 |
| 074 T000000 | 586886 |
| 074 U010000 | 37808  |
| 074 U020000 | 0      |

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|             |        |
|-------------|--------|
| 074 V010000 | 15.52  |
| 074 V020000 | 0.00   |
| 074 W000000 | 0.0000 |
| 074 X000000 | 14395  |

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|           |                 |                 |
|-----------|-----------------|-----------------|
| 074       | Y000000         | 317563          |
| 075       | A000000         | 0               |
| 075       | B000000         | 580844          |
| 076       | 000000          | 15.03           |
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| 077       | O000000         | Y               |
| 077       | Q010000         | N               |
| 078       | 000000          | N               |
| 080       | C000000         | 0               |
| 081       | B000000         | 0               |
| 082       | B000000         | 0               |
| 083       | B000000         | 0               |
| 084       | B000000         | 0               |
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| 086       | A020000         | 0               |
| 086       | B010000         | 0               |
| 086       | B020000         | 0               |
| 086       | C010000         | 0               |
| 086       | C020000         | 0               |
| 086       | D010000         | 0               |
| 086       | D020000         | 0               |
| 086       | E010000         | 0               |
| 086       | E020000         | 0               |
| 086       | F010000         | 0               |
| 086       | F020000         | 0               |
| 087       | A010000         | COMMON STOCK    |
| 087       | A020000         | 09254P108       |
| 087       | A030000         | MFL             |
| 087       | B010000         | PREFERRED STOCK |
| 088       | A000000         | N               |
| 088       | B000000         | N               |
| 088       | C000000         | N               |
| 088       | D000000         | Y               |
| SIGNATURE | NEAL J. ANDREWS |                 |
| TITLE     | CFO             |                 |