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BLACKROCK MASSACHUSETTS TAX-EXEMPT TRUST Form N-Q July 23, 2015

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM N-Q

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED

MANAGEMENT INVESTMENT COMPANY

Investment Company Act file number: 811-07660

Name of Fund: BlackRock Massachusetts Tax-Exempt Trust (MHE)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock Massachusetts

Tax-Exempt Trust, 55 East 52nd Street, New York, NY 10055

Registrant s telephone number, including area code: (800) 882-0052, Option 4

Date of fiscal year end: 08/31/2015

Date of reporting period: 05/31/2015

Item 1 Schedule of Investments

$Schedule\ of\ Investments\ {\tt May\ 31,\ 2015\ (Unaudited)}$

BlackRock Massachusetts Tax-Exempt Trust (MHE)

(Percentages shown are based on Net Assets)

	Par	
Municipal Bonds	(000)	Value
Massachusetts 152.9%		
County/City/Special District/School District 3.6%		
Town of Holyoke Massachusetts, GO, Refunding, 5.00%, 9/01/26	\$ 1,000	\$ 1,167,800
Education 75.0%		
Massachusetts Development Finance Agency, RB:		
Boston University, Series T-1 (AMBAC), 5.00%, 10/01/39	1,000	1,013,310
Foxborough Regional Charter School, Series A, 7.00%, 7/01/42	250	281,882
Mount Holyoke College, Series B, 5.00%, 7/01/41	500	545,375
Smith College, 5.00%, 7/01/35	2,000	2,007,740
Wellesley College, Series J, 5.00%, 7/01/42	1,950	2,207,985
WGBH Educational Foundation, Series A (AMBAC), 5.75%, 1/01/42	650	800,494
Massachusetts Development Finance Agency, Refunding RB:		
Boston University, Series P, 5.45%, 5/15/59	1,500	1,744,740
Clark University (Syncora), 5.13%, 10/01/35	500	506,815
Emerson College, Series A, 5.00%, 1/01/40	200	209,926
Trustees of Deerfield Academy, 5.00%, 10/01/40	1,675	1,916,334
Wheelock College, Series C, 5.25%, 10/01/37	1,000	1,064,030
Williston Northampton School Project (Syncora), 5.00%, 10/01/25	500	503,010
Worcester Polytechnic Institute (NPFGC), 5.00%, 9/01/27	1,985	2,138,302
Massachusetts Educational Financing Authority, RB, Education Loan, Issue I, AMT, 5.00%, 1/01/27	1,000	1,098,180
Massachusetts Health & Educational Facilities Authority, RB:		
Northeastern University, Series R, 5.00%, 10/01/33	225	247,093
Tufts University, Series O, 5.38%, 8/15/18 (a)	1,000	1,133,240
	Par	
Municipal Bonds	(000)	Value
	(000)	v aluc
Massachusetts (continued)	(000)	value
•	(000)	v alue
Massachusetts (continued)	(000)	value
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB:	\$ 1,000	\$ 1,080,370
Massachusetts (continued) Education (concluded)	()	
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37	\$ 1,000	\$ 1,080,370
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38	\$ 1,000 100 400	\$ 1,080,370 114,339 437,088
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31	\$ 1,000 100	\$ 1,080,370 114,339
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32	\$ 1,000 100 400 500 500	\$ 1,080,370 114,339 437,088 559,820 556,700
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40	\$ 1,000 100 400 500	\$ 1,080,370 114,339 437,088 559,820
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27	\$ 1,000 100 400 500 500 500 1,000	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27 Massachusetts State College Building Authority, RB, Series A (AMBAC), 5.00%, 5/01/16 (a)	\$ 1,000 100 400 500 500 500	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580 1,042,840
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27 Massachusetts State College Building Authority, RB, Series A (AMBAC), 5.00%, 5/01/16 (a) Massachusetts State College Building Authority, Refunding RB, Series B (Syncora), 5.50%, 5/01/39	\$ 1,000 100 400 500 500 500 1,000 1,000 825	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580 1,042,840 1,039,657
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27 Massachusetts State College Building Authority, RB, Series A (AMBAC), 5.00%, 5/01/16 (a)	\$ 1,000 100 400 500 500 500 1,000	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580 1,042,840
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27 Massachusetts State College Building Authority, RB, Series A (AMBAC), 5.00%, 5/01/16 (a) Massachusetts State College Building Authority, Refunding RB, Series B (Syncora), 5.50%, 5/01/39	\$ 1,000 100 400 500 500 500 1,000 1,000 825	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580 1,042,840 1,039,657 557,980
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27 Massachusetts State College Building Authority, RB, Series A (AMBAC), 5.00%, 5/01/16 (a) Massachusetts State College Building Authority, Refunding RB, Series B (Syncora), 5.50%, 5/01/39 University of Massachusetts Building Authority, RB, Senior-Series 2, 5.00%, 11/01/39	\$ 1,000 100 400 500 500 500 1,000 1,000 825	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580 1,042,840 1,039,657
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27 Massachusetts State College Building Authority, RB, Series A (AMBAC), 5.00%, 5/01/16 (a) Massachusetts State College Building Authority, Refunding RB, Series B (Syncora), 5.50%, 5/01/39 University of Massachusetts Building Authority, RB, Senior-Series 2, 5.00%, 11/01/39 Health 24.2%	\$ 1,000 100 400 500 500 500 1,000 1,000 825	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580 1,042,840 1,039,657 557,980
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27 Massachusetts State College Building Authority, RB, Series A (AMBAC), 5.00%, 5/01/16 (a) Massachusetts State College Building Authority, Refunding RB, Series B (Syncora), 5.50%, 5/01/39 University of Massachusetts Building Authority, RB, Senior-Series 2, 5.00%, 11/01/39 Health 24.2% Massachusetts Development Finance Agency, RB, 1st Mortgage, Edgecombe Project, Series A,	\$ 1,000 100 400 500 500 500 1,000 1,000 825 500	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580 1,042,840 1,039,657 557,980 24,597,830
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27 Massachusetts State College Building Authority, RB, Series A (AMBAC), 5.00%, 5/01/16 (a) Massachusetts State College Building Authority, Refunding RB, Series B (Syncora), 5.50%, 5/01/39 University of Massachusetts Building Authority, RB, Senior-Series 2, 5.00%, 11/01/39 Health 24.2% Massachusetts Development Finance Agency, RB, 1st Mortgage, Edgecombe Project, Series A, 6.75%, 7/01/21	\$ 1,000 100 400 500 500 500 1,000 1,000 825	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580 1,042,840 1,039,657 557,980
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27 Massachusetts State College Building Authority, RB, Series A (AMBAC), 5.00%, 5/01/16 (a) Massachusetts State College Building Authority, Refunding RB, Series B (Syncora), 5.50%, 5/01/39 University of Massachusetts Building Authority, RB, Senior-Series 2, 5.00%, 11/01/39 Health 24.2% Massachusetts Development Finance Agency, RB, 1st Mortgage, Edgecombe Project, Series A, 6.75%, 7/01/21 Massachusetts Development Finance Agency, Refunding RB:	\$ 1,000 100 400 500 500 1,000 1,000 825 500	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580 1,042,840 1,039,657 557,980 24,597,830
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27 Massachusetts State College Building Authority, RB, Series A (AMBAC), 5.00%, 5/01/16 (a) Massachusetts State College Building Authority, Refunding RB, Series B (Syncora), 5.50%, 5/01/39 University of Massachusetts Building Authority, RB, Senior-Series 2, 5.00%, 11/01/39 Health 24.2% Massachusetts Development Finance Agency, RB, 1st Mortgage, Edgecombe Project, Series A, 6.75%, 7/01/21 Massachusetts Development Finance Agency, Refunding RB: Carleton-Willard Village, 5.63%, 12/01/30	\$ 1,000 100 400 500 500 1,000 1,000 825 500	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580 1,042,840 1,039,657 557,980 24,597,830 662,911
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27 Massachusetts State College Building Authority, RB, Series A (AMBAC), 5.00%, 5/01/16 (a) Massachusetts State College Building Authority, Refunding RB, Series B (Syncora), 5.50%, 5/01/39 University of Massachusetts Building Authority, RB, Senior-Series 2, 5.00%, 11/01/39 Health 24.2% Massachusetts Development Finance Agency, RB, 1st Mortgage, Edgecombe Project, Series A, 6.75%, 7/01/21 Massachusetts Development Finance Agency, Refunding RB: Carleton-Willard Village, 5.63%, 12/01/30 Partners Healthcare System, Series L, 5.00%, 7/01/36	\$ 1,000 100 400 500 500 1,000 1,000 825 500	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580 1,042,840 1,039,657 557,980 24,597,830
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27 Massachusetts State College Building Authority, RB, Series A (AMBAC), 5.00%, 5/01/16 (a) Massachusetts State College Building Authority, Refunding RB, Series B (Syncora), 5.50%, 5/01/39 University of Massachusetts Building Authority, RB, Senior-Series 2, 5.00%, 11/01/39 Health 24.2% Massachusetts Development Finance Agency, RB, 1st Mortgage, Edgecombe Project, Series A, 6.75%, 7/01/21 Massachusetts Development Finance Agency, Refunding RB: Carleton-Willard Village, 5.63%, 12/01/30 Partners Healthcare System, Series L, 5.00%, 7/01/36 Massachusetts Health & Educational Facilities Authority, RB:	\$ 1,000 100 400 500 500 1,000 1,000 825 500	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580 1,042,840 1,039,657 557,980 24,597,830 662,911 560,975 1,111,110
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27 Massachusetts State College Building Authority, RB, Series A (AMBAC), 5.00%, 5/01/16 (a) Massachusetts State College Building Authority, Refunding RB, Series B (Syncora), 5.50%, 5/01/39 University of Massachusetts Building Authority, RB, Senior-Series 2, 5.00%, 11/01/39 Health 24.2% Massachusetts Development Finance Agency, RB, 1st Mortgage, Edgecombe Project, Series A, 6.75%, 7/01/21 Massachusetts Development Finance Agency, Refunding RB: Carleton-Willard Village, 5.63%, 12/01/30 Partners Healthcare System, Series L, 5.00%, 7/01/36 Massachusetts Health & Educational Facilities Authority, RB: Cape Cod Healthcare Obligated Group, Series D (AGC), 5.00%, 11/15/31	\$ 1,000 100 400 500 500 500 1,000 1,000 825 500 660 500 1,000	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580 1,042,840 1,039,657 557,980 24,597,830 662,911 560,975 1,111,110
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27 Massachusetts State College Building Authority, RB, Series A (AMBAC), 5.00%, 5/01/16 (a) Massachusetts State College Building Authority, Refunding RB, Series B (Syncora), 5.50%, 5/01/39 University of Massachusetts Building Authority, RB, Senior-Series 2, 5.00%, 11/01/39 Health 24.2% Massachusetts Development Finance Agency, RB, 1st Mortgage, Edgecombe Project, Series A, 6.75%, 7/01/21 Massachusetts Development Finance Agency, Refunding RB: Carleton-Willard Village, 5.63%, 12/01/30 Partners Healthcare System, Series L, 5.00%, 7/01/36 Massachusetts Health & Educational Facilities Authority, RB: Cape Cod Healthcare Obligated Group, Series D (AGC), 5.00%, 11/15/31 Caregroup, Series E-1, 5.00%, 7/01/28	\$ 1,000 100 400 500 500 500 1,000 1,000 825 500 660 500 1,000 1,000 500	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580 1,042,840 1,039,657 557,980 24,597,830 662,911 560,975 1,111,110 1,108,920 550,015
Massachusetts (continued) Education (concluded) Massachusetts Health & Educational Facilities Authority, Refunding RB: Berklee College of Music, Series A, 5.00%, 10/01/37 Harvard University, Series A, 5.50%, 11/15/36 Harvard University, Series B, 5.00%, 10/01/38 Northeastern University, Series T-1, 5.00%, 10/01/31 Northeastern University, Series T-2, 5.00%, 10/01/32 Springfield College, 5.63%, 10/15/40 Tufts University, Series M, 5.50%, 2/15/27 Massachusetts State College Building Authority, RB, Series A (AMBAC), 5.00%, 5/01/16 (a) Massachusetts State College Building Authority, Refunding RB, Series B (Syncora), 5.50%, 5/01/39 University of Massachusetts Building Authority, RB, Senior-Series 2, 5.00%, 11/01/39 Health 24.2% Massachusetts Development Finance Agency, RB, 1st Mortgage, Edgecombe Project, Series A, 6.75%, 7/01/21 Massachusetts Development Finance Agency, Refunding RB: Carleton-Willard Village, 5.63%, 12/01/30 Partners Healthcare System, Series L, 5.00%, 7/01/36 Massachusetts Health & Educational Facilities Authority, RB: Cape Cod Healthcare Obligated Group, Series D (AGC), 5.00%, 11/15/31	\$ 1,000 100 400 500 500 500 1,000 1,000 825 500 660 500 1,000	\$ 1,080,370 114,339 437,088 559,820 556,700 535,000 1,255,580 1,042,840 1,039,657 557,980 24,597,830 662,911 560,975 1,111,110

BLACKROCK MASSACHUSETTS TAX-EXEMPT TRUST

MAY 31, 2015

Schedule of Investments (continued)

BlackRock Massachusetts Tax-Exempt Trust (MHE)

(Percentages shown are based on Net Assets)

	Par		
Municipal Bonds	(000)	Value	
Massachusetts (continued)			
Health (concluded)			
Massachusetts Health & Educational Facilities Authority, RB (concluded):	ф. 500	ф. 570.770	
Children's Hospital, Series M, 5.50%, 12/01/39	\$ 500	\$ 570,770	
Lahey Clinic Medical Center, Series D, 5.25%, 8/15/37	1,000	1,057,210	
Southcoast Health Obligation Group, Series D, 5.00%, 7/01/39 Massachusetts Health & Educational Facilities Authority, Refunding RB, Winchester Hospital, Series H,	500	537,200	
5.25%, 7/01/38	1,000	1,100,470	
5.25 //, 1101136	1,000	1,100,470	
		7 027 275	
U		7,937,275	
Housing 11.3% Massachusetts HFA, RB, M/F Housing, Series A (FHA), 5.25%, 12/01/35	185	107.006	
Massachusetts HFA, Refunding RB, AMT:	163	197,906	
Series C, 5.00%, 12/01/30	490	506,635	
Series C, 5.35%, 12/01/30	2,000	2,068,800	
Series F, 5.70%, 6/01/40	890	935,764	
Selics 1, 3.70 %, 0/01/40	670	755,704	
		2 700 105	
State 19.6%		3,709,105	
Massachusetts Bay Transportation Authority, Refunding RB, Senior Series A, 5.25%, 7/01/29	730	913,748	
Massachusetts School Building Authority, RB:	730	913,740	
Dedicated Sales Tax, Senior Series A, 5.00%, 5/15/43	500	556,855	
Dedicated Sales Tax, Series A (AGM), 5.00%, 8/15/15 (a)	1,000	1,010,060	
Senior Series B, 5.00%, 10/15/41	1,000	1,114,820	
Selici Selies 2, 3.00%, 10/13/11	Par	1,111,020	
Municipal Bonds	(000)	Value	
Massachusetts (concluded)	(000)	v aiue	
State (concluded)			
Massachusetts State College Building Authority, RB, Series A, 5.50%, 5/01/39	\$ 2,500	\$ 2,828,150	
7,,,,,,,,,, -	7 _,000	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		6,423,633	
Transportation 19.2%		0,423,033	
Commonwealth of Massachusetts, RB, Series A, 5.00%, 6/15/27	1,000	1,181,340	
Commonwealth of Massachusetts, Refunding RB, Series A, 5.00%, 6/01/38	500	561,805	
Massachusetts Department of Transportation, Refunding RB, Senior Series B:	200	201,002	
5.00%, 1/01/32	1,120	1,245,283	
5.00%, 1/01/37	1,000	1,097,780	
Massachusetts Port Authority, RB, Series A, AMT, 5.00%, 7/01/42	1,000	1,088,830	
Metropolitan Boston Transit Parking Corp., Refunding RB, 5.25%, 7/01/36	1,000	1,135,310	
		6,310,348	
Total Municipal Bonds		0,510,510	
(Cost \$46,366,029) 152.9%		50,145,991	
(COST \$40,500,027) 132.7 %		30,143,991	
	CI.		
Short-Term Securities	Shares	524.077	
BIF Massachusetts Municipal Money Fund, 0.00% (b)(c) Total Short-Term Securities	534,877	534,877	
Total Short-Term Securities			
(Cost \$534,877) 1.6%		534,877	
Total Investments (Cost \$46,900,906*) 154.5%		50,680,868	
Other Assets Less Liabilities 1.9%		627,679	
VRDP Shares, at Liquidation Value (56.4)%		(18,500,000)	

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Net Assets Applicable to Common Shares 100.0%	\$ 32,808,547
* As of May 31, 2015, gross unrealized appreciation and depreciation based on cost for federal income tax purposes were as	follows:
Tax cost	\$ 46,886,930
Gross unrealized appreciation	\$ 3,793,938
Gross unrealized depreciation	
Net unrealized appreciation	\$ 3,793,938

MAY 31, 2015

BLACKROCK MASSACHUSETTS TAX-EXEMPT TRUST

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Schedule of Investments (continued)

BlackRock Massachusetts Tax-Exempt Trust (MHE)

Notes to Schedule of Investments

- (a) U.S. Government securities, held in escrow, are used to pay interest on this security, as well as to retire the bond in full at the date indicated, typically at a premium to par.
- (b) During the period ended May 31, 2015, investments in issuers considered to be an affiliate of the Trust for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

	Shares Held		Shares Held	
	at August 31,	Net	at May 31,	
Affiliate	2014	Activity	2015	Income
BIF Massachusetts Municipal Money Fund	291,104	243,773	534,877	

(c) Represents the current yield as of report date.

Portfolio Abbreviations

AGC Assured Guarantee Corp.
AGM Assured Guaranty Municipal Corp.

AMBAC American Municipal Bond Assurance Corp.

AMT Alternative Minimum Tax (subject to)

FHA Federal Housing Administration

GO General Obligation Bonds

HFA Housing Finance Agency

M/F Multi-Family

NPFGC National Public Finance Guarantee Corp.

RB Revenue Bonds **Syncora** Syncora Guarantee

As of May 31, 2015, financial futures contracts outstanding were as follows:

Contracts				Notional	Unrealized		
Sh	ort	Issue	Exchange	Expiration	Value	Depreciation	
	(23)	10-Year U.S. Treasury Note	Chicago Board of Trade	September 2015	\$ 2,936,813	\$ (9,377)	

For Trust compliance purposes, the Trust s sector classifications refer to one or more of the sector sub-classifications used by one or more widely recognized market indexes or rating group indexes, and/or as defined by the investment advisor. These definitions may not apply for purposes of this report, which may combine such sector sub-classifications for reporting ease.

BLACKROCK MASSACHUSETTS TAX-EXEMPT TRUST

MAY 31, 2015

Schedule of Investments (continued)

BlackRock Massachusetts Tax-Exempt Trust (MHE)

Fair Value Measurements Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs to valuation techniques are categorized into a disclosure hierarchy consisting of three broad levels for financial reporting purposes. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). Accordingly, the degree of judgment exercised in determining fair value is greatest for instruments categorized in Level 3. The inputs used to measure fair value may fall into different levels of the fair value hierarchy. In such cases, for disclosure purposes, the fair value hierarchy classification is determined based on the lowest level input that is significant to the fair value measurement in its entirety. The categorization of a value determined for investments and derivative financial instruments is based on the pricing transparency of the investment and derivative financial instruments and is not necessarily an indication of the risks associated with investing in those securities. The three levels of the fair value hierarchy are as follows:

Level 1 unadjusted quoted prices in active markets/exchanges for identical assets or liabilities that the Trust has the ability to access

Level 2 other observable inputs (including, but not limited to, quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

Level 3 unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Trust s own assumptions used in determining the fair value of investments and derivative financial instruments)

Changes in valuation techniques may result in transfers into or out of an assigned level within the disclosure hierarchy. In accordance with the Trust spolicy, transfers between different levels of the fair value disclosure hierarchy are deemed to have occurred as of the beginning of the reporting period. For information about the Trust spolicy regarding valuation of investments and derivative financial instruments, refer to the Trust s most recent financial statements as contained in its semi-annual report.

As of May 31, 2015, the following tables summarize the Trust s investments and derivative financial instruments categorized in the disclosure hierarchy:

	Level 1	Level 2	Level 3	Total
Assets:				
Investments:				
Long-Term Investments ¹		\$ 50,145,991		\$ 50,145,991
Short-Term Securities	\$ 534,877			534,877
Total	\$ 534,877	\$ 50,145,991		\$ 50,680,868
¹ See above Schedule of Investments for values in each sector.				
	Level 1	Level 2	Level 3	Total
Derivative Financial Instruments ²				
Liabilities:				
Interest rate contracts	\$ (9,377)			\$ (9,377)

² Derivative financial instruments are financial futures contracts, which are valued at the unrealized appreciation (depreciation) on the instrument.

BLACKROCK MASSACHUSETTS TAX-EXEMPT TRUST

MAY 31, 2015

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Schedule of Investments (concluded)

BlackRock Massachusetts Tax-Exempt Trust (MHE)

The Trust may hold assets and/or liabilities in which the fair value approximates the carrying amount for financial reporting purposes. As of May 31, 2015, such assets and/or liabilities are categorized within the disclosure hierarchy as follows:

	Level 1	Level 2	Level 3	Total
Assets:				
Cash pledged for financial futures contracts	\$ 31,050			\$ 31,050
Liabilities:				
VRDP Shares		\$ (18,500,000)		(18,500,000)
Total	\$ 31,050	\$ (18,500,000)		\$ (18,468,950)

During the ended May 31, 2015, there were no transfers between levels.

BLACKROCK MASSACHUSETTS TAX-EXEMPT TRUST

MAY 31, 2015

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Item 2 Controls and Procedures

- 2(a) The registrant s principal executive and principal financial officers, or persons performing similar functions, have concluded that the registrant s disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the 1940 Act)) are effective as of a date within 90 days of the filing of this report based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the 1940 Act and Rule 13a-15(b) under the Securities Exchange Act of 1934, as amended.
- 2(b) There were no changes in the registrant s internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act) that occurred during the registrant s last fiscal quarter that have materially affected, or are reasonably likely to materially affect, the registrant s internal control over financial reporting.

Item 3 Exhibits

Certifications Attached hereto

Pursuant to the requirements of the Securities Exchange Act of 1934 and 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.

BlackRock Massachusetts Tax-Exempt Trust

By: /s/ John M. Perlowski

John M. Perlowski

Chief Executive Officer (principal executive officer) of

BlackRock Massachusetts Tax-Exempt Trust

Date: July 23, 2015

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By: /s/ John M. Perlowski

John M. Perlowski

Chief Executive Officer (principal executive officer) of

BlackRock Massachusetts Tax-Exempt Trust

Date: July 23, 2015

By: /s/ Neal J. Andrews

Neal J. Andrews

Chief Financial Officer (principal financial officer) of

BlackRock Massachusetts Tax-Exempt Trust

Date: July 23, 2015