BLACKROCK APEX MUNICIPAL FUND INC Form N-Q March 31, 2010 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 811-05227
Name of Fund: BlackRock Apex Municipal Fund, Inc. (APX)
Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809
Name and address of agent for service: Anne F. Ackerley, Chief Executive Officer, BlackRock Apex Municipal Fund, Inc., 55 East 52 nd Street New York, NY 10055.
Registrant s telephone number, including area code: (800) 882-0052, Option 4
Date of fiscal year end: 04/30/2010
Date of reporting period: 01/31/2010
Item 1 Schedule of Investments

Schedule of Investments January 31, 2010 (Unaudited)

BlackRock Apex Municipal Fund, Inc. (APX)
(Percentages shown are based on Net Assets)

Municipal Bonds	Par (000)	Value
Alabama 0.4%		
County of Jefferson Alabama, RB,		
Series A, 5.25%, 1/01/17	\$ 365	\$ 328,493
Tuscaloosa Special Care Facilities		
Financing Authority, RB, Capstone		
Village, Series A, 5.88%,		
8/01/36 (a)(b)	1,255	387,092
		715,585
Alaska 1.0%		
Alaska Industrial Development & Export		
Authority, RB, Williams Lynxs, Alaska		
Cargoport, AMT, 8.00%, 5/01/23	2,000	1,883,240
Arizona 4.4%		
Maricopa County IDA Arizona, RB,		
Arizona Charter Schools Project,		
Series A, 6.63%, 7/01/20	1,100	842,864
Maricopa County IDA Arizona, RB, Sun	1,100	0.2,00.
King Apartments Project, Series A,		
6.00%, 11/01/10	10	9,950
Maricopa County IDA Arizona, RB, Sun		
King Apartments Project, Series A,		
6.75%, 5/01/31	1,020	790,265
Phoenix IDA Arizona, Refunding RB,		
America West Airlines Inc. Project,		
AMT, 6.30%, 4/01/23	2,950	1,969,450
Pima County IDA, RB, Arizona Charter		
Schools Project, Series E, 7.25%,	060	020.079
7/01/31 Pima County IDA, Refunding IDRB,	960	929,078
Tucson Electric Power, 5.75%,		
9/01/29	460	464,715
Salt Verde Financial Corp., RB, Senior,	100	101,713
5.00%, 12/01/32	1,950	1,713,485
University Medical Center Corp., Arizona,	, , ,	,,
RB, 6.25%, 7/01/29	540	572,702
Yavapai County IDA, Arizona, RB,		
Yavapai Regional Medical Center,		
Series A, 6.00%, 8/01/33	500	501,090
		7,793,599
California 2.8%		
California Health Facilities Financing		
Authority, RB, Cedars-Sinai Medical	7/5	706,294
Center, 5.00%, 8/15/39	765	700,294

Municipal Bonds	Par (000)	Value
California (concluded)		
California Statewide Communities		
Development Authority, Refunding RB,		
Senior Living, Southern California,		
7.00%, 11/15/29	\$ 400	\$ 421,680
California Statewide Communities		
Development Authority, Refunding RB,		
Senior Living, Southern California,		
7.25%, 11/15/41	1,440	1,526,789
City of Fontana California, Special Tax		
Bonds, Refunding, Community		
Facilities District No. 22-Sierra,	1,000	026 200
Series H, 6.00%, 9/01/34 State of California, GO, 4.50%,	1,000	926,290
10/01/36	1,755	1,406,773
10/01/30	1,733	1,400,775
		4,987,826
Colorado 3.1%		
Colorado Health Facilities Authority,		
Refunding RB, Christian Living		
Communities Project, Series A, 5.75%,		
1/01/26	450	401,233
Elk Valley Public Improvement Corp., RB,		
Public Improvement Fee, Series A,		
7.30%, 9/01/22	2,800	2,710,876
Plaza Metropolitan District No. 1		
Colorado, Tax Allocation Bonds, Public		
Improvement Fee, Tax Increment, 8.00%, 12/01/25	2,000	1,971,480
Plaza Metropolitan District No. 1	2,000	1,771,400
Colorado, Tax Allocation Bonds,		
Subordinate Public Improvement Fee,		
Tax Increment, 8.13%, 12/01/25	500	468,935
		5,552,524
Connecticut 2.3%		
Harbor Point Infrastructure		
Improvement District, Tax Allocation Bonds, Harbor Point Project, Series A,		
7.88%, 4/01/39 (c)	1,610	1,610,612
Mohegan Tribe of Indians of	1,010	1,010,012
Connecticut, RB, Public Improvement,		
Priority Distribution, 6.25%, 1/01/31	1,785	1,429,767
Portfolio Abbreviations		

Portfolio Abbreviations

To simplify the listings of portfolio holdings in the Schedule of Investments, the names and descriptions of many of the securities have been abbreviated according to the following list.

ACA American Capital Access Corp. AGC Assured Guaranty Corp.

AMBAC American Municipal Bond Assurance Corp.
AMT Alternative Minimum Tax (subject to)

Capital Appreciation Bonds CAB Economic Development Authority **EDA** Economic Development Corp. EDC Education Revenue Bonds **ERB** General Obligation Bonds GO Housing Development Authority HDA **Industrial Development Authority IDA IDRB** Industrial Development Revenue Bonds National Public Financed Guarantee Corp. **NPFGC**

MRB Mortgage Revenue Bonds

RB Revenue Bonds

BLACKROCK APEX MUNICIPAL FUND, INC.

JANUARY 31, 2010

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BlackRock Apex Municipal Fund, Inc. (APX)
(Percentages shown are based on Net Assets)

Municipal Bonds	Par (000)	Value
Connecticut (concluded)		
Mohegan Tribe of Indians of		
Connecticut, RB, Public Improvement,		
Priority Distribution, 5.25%,	¢ 1.500	\$ 1,081,560
1/01/33 (d)	\$ 1,500	\$ 1,081,560
		4,121,939
District of Columbia 2.2%		
District of Columbia, RB, Methodist		
Home District of Columbia, Series A, 7.38%, 1/01/30	680	680,272
District of Columbia, RB, Methodist		000,=.=
Home District of Columbia, Series A,		
7.50%, 1/01/39	1,110	1,102,119
District of Columbia Tobacco Settlement		
Financing Corp., Refunding RB, Asset-	730	721 294
Backed, 6.50%, 5/15/33 Metropolitan Washington Airports	730	721,284
Authority, RB, CAB, Second Senior		
Lien, Series B (AGC), 6.74%,		
10/01/39 (e)	9,770	1,435,017
		3,938,692
Florida 9.6%		
Capital Region Community Development		
District, Florida, Special Assessment Bonds, Capital Improvement, Series A,		
7.00%, 5/01/39	645	618,645
County of Miami-Dade, Florida,	013	010,043
Refunding RB, Miami International		
Airport, Series A-1, 5.38%, 10/01/41	485	480,223
Hillsborough County IDA, RB, National		
Gypsum Co., Series A, AMT, 7.13%,	2.500	1.025.075
4/01/30 Hillsborough County IDA, RB, National	2,500	1,925,075
Gypsum Co., Series B, AMT, 7.13%,		
4/01/30	1,560	1,201,247
Jacksonville Economic Development	-,	-,,
Commission, RB, Gerdau Ameristeel		
US Inc., AMT, 5.30%, 5/01/37	900	648,828
Jacksonville Economic Development		
Commission, Refunding RB, Florida		
Proton Therapy Institute, Series A, 6.00%, 9/01/17	840	857,892
Lee County IDA Florida, RB, Series A,	840	031,092
Lee Charter Foundation, 5.38%,		
6/15/37	1,810	1,332,377

3 3			
Main Street Community Development			
District, Special Assessment Bonds,			
Series B, 6.90%, 5/01/17		345	304,173
Midtown Miami Community			
Development District, Special			
Assessment Bonds, Series A, 6.00%,			
5/01/24		1,430	1,263,319
Midtown Miami Community			
Development District, Special			
Assessment Bonds, Series A, 6.25%,			
5/01/37		1,350	1,146,150
Santa Rosa Bay Bridge Authority, RB,			
6.25%, 7/01/28		2,140	1,198,464
	Pa		*7.1
Municipal Bonds	Pa (00		Value
			Value
Florida (concluded)			Value
Florida (concluded) Sarasota County Health Facilities			Value
Florida (concluded) Sarasota County Health Facilities Authority, Refunding RB, Village On	(00	0)	
Florida (concluded) Sarasota County Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/27			Value 523,855
Florida (concluded) Sarasota County Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/27 Sarasota County Health Facilities	(00	0)	
Florida (concluded) Sarasota County Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/27	(00	0)	
Florida (concluded) Sarasota County Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/27 Sarasota County Health Facilities Authority, Refunding RB, Village On	(00	590 \$	523,855
Florida (concluded) Sarasota County Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/27 Sarasota County Health Facilities Authority, Refunding RB, Village On The Isle Project, 5.50%, 1/01/32	(00	590 \$	523,855

RB, Sarasota Memorial Hospital		
Project, Series A, 5.63%, 7/01/39	470	477,708
Sumter Landing Community		
Development District Florida, RB, Sub-		
Series B, 5.70%, 10/01/38	1,615	1,216,725
Tampa Palms Open Space &		
Transportation Community		
Development District, RB, Capital		
Improvement, Richmond Place		
Project, 7.50%, 5/01/18	2,075	2,074,626
Tolomato Community Development		
District, Special Assessment Bonds,		
Special Assessment, 6.65%, 5/01/40	1,850	1,479,482
		17,219,551
Georgia 3.0%		
City of Atlanta Georgia, Tax Allocation		
Bonds, Princeton Lakes Project,		
5.50%, 1/01/31	395	342,050
Clayton County Development Authority,		
RB, Delta Air Lines Inc. Project,		
Series A, 8.75%, 6/01/29	1,375	1,413,569
County of Clayton Georgia, Tax		
Allocation Bonds, Ellenwood Project,		
7.50%, 7/01/33	1,640	1,538,894
Gainesville & Hall County Development		
Authority, Refunding RB, Acts		
Retirement Life Community,		
Series A-2, 6.63%, 11/15/39	645	666,736
Rockdale County Development		
Authority, RB, Visy Paper Project,		
Series A, AMT, 6.13%, 1/01/34	1,680	1,353,946
	1,680	1,353,946

		5,315,195
Guam 3.3%		
Guam Government Waterworks		
Authority, Refunding RB, Water, 6.00%, 7/01/25	515	515,675
Guam Government Waterworks Authority, Refunding RB, Water,		,
5.88%, 7/01/35	1,600	1,552,096
Territory of Guam, GO, Series A, 6.00%, 11/15/19	250	253,895
Territory of Guam, GO, Series A, 6.75%, 11/15/29	440	455,686
Territory of Guam, GO, Series A, 7.00%, 11/15/39	455	466,925
Territory of Guam, RB, Section 30, Series A, 5.63%, 12/01/29	1,000	1,007,810
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BlackRock Apex Municipal Fund, Inc. (APX) (Percentages shown are based on Net Assets)

Municipal Bonds	Par (000)	Value
Guam (concluded)		
Territory of Guam, RB, Section 30,		
Series A, 5.75%, 12/01/34	\$ 1,540	\$ 1,557,156
		5,809,243
		3,007,213
Illinois 4.8%		
City of Chicago Illinois, Refunding RB,		
American Airlines Inc. Project, 5.50%,	2.000	1.045.020
12/01/30 Illinois Finance Authority, D.P. Clara et	2,860	1,945,029
Illinois Finance Authority, RB, Clare at Water Tower Project, Series A, 6.13%,		
5/15/38 (a)(b)	2,050	821,087
Illinois Finance Authority, RB, Monarch	2,030	021,007
Landing Inc. Facility, Series A, 7.00%,		
12/01/37 (a)(b)	575	184,000
Illinois Finance Authority, RB, Roosevelt		,
University Project, 6.50%, 4/01/44	1,700	1,746,444
Illinois Finance Authority, RB, Rush		
University Medical Center Obligation		
Group, Series A, 7.25%, 11/01/30	2,000	2,219,840
Illinois Finance Authority, Refunding RB,		
Primary Health Care Centers Program,	400	424.216
6.60%, 7/01/24	490	434,316
Village of Lincolnshire Illinois, Special Tax Bonds, Sedgebrook Project,		
6.25%, 3/01/34	755	595,393
Village of Wheeling Illinois, Tax	733	373,373
Allocation Bonds, North		
Milwaukee/Lake-Cook TIF Project,		
6.00%, 1/01/25	750	666,570
		8,612,679
Indiana 2.6%		_
Indiana Finance Authority, Refunding		
RB, Duke Energy Indiana, Inc.,		
Series C, 4.95%, 10/01/40	1,390	1,348,106
Indiana Health & Educational Facilities	·	
Financing Authority, Refunding RB,		
Community Foundation Northwest		
Indiana, 5.50%, 3/01/37	1,770	1,686,208
Vanderburgh County Redevelopment		
Commission Indiana, Tax Allocation		
Bonds, 5.25%, 2/01/31	820	
Vigo County Hospital Authority Indiana, RB, Union Hospital Inc., 5.70%,	440	363,585

9/01/37 (d) Vigo County Hospital Authority Indiana, RB, Union Hospital Inc., 5.75%,		
9/01/42 (d)	545	446,731
	_	4,628,468
Louisiana 1.2%		
Louisiana Local Government		
Environmental Facilities & Community		
Development Authority, RB, Westlake		
Chemical Corp. Projects, 6.75%,		
11/01/32	2,000	2,062,440
1101132	2,000	2,002,440

Municipal Bonds	Par (000)		Value
Maryland 1.2%			
Maryland EDC, RB, Transportation			
Facilities Project, Series A, 5.75%,			
6/01/35	\$	420	\$ 424,200
Maryland Health & Higher Educational			
Facilities Authority, RB, Washington Christian Academy, 5.50%, 7/01/38		410	196,796
Maryland State Energy Financing		410	190,790
Administration, RB, Cogeneration, AES			
Warrior Run, AMT, 7.40%, 9/01/19		1,500	1,500,345
			2,121,341
Magazahusatta 220/			
Massachusetts 2.3% Massachusetts Development Finance			
Agency, RB, First Mortgage, Overlook			
Communities, Series A, 6.25%,			
7/01/34		1,845	1,558,508
Massachusetts Development Finance		,	· ·
Agency, Refunding RB, Eastern			
Nazarene College, 5.63%, 4/01/19		1,245	1,120,276
Massachusetts Health & Educational			
Facilities Authority, RB, Jordan		0.50	760 706
Hospital, Series E, 6.75%, 10/01/33 Massachusetts Health & Educational		850	769,786
Facilities Authority, Refunding RB,			
Milton Hospital, Series C, 5.50%,			
7/01/16		500	439,960
Massachusetts Port Authority, RB, Delta		200	.55,500
Air Lines Inc. Project, Series A, AMT			
(AMBAC), 5.50%, 1/01/13		280	269,055
			4,157,585
			, ,
Michigan 2.7%			
Advanced Technology Academy, RB,		<i>(</i> 2.7	500 500
6.00%, 11/01/37		625	523,681
County of Wayne Michigan, GO, Building			
Improvement, Series A, 6.75%, 11/01/39		375	390,540
11101137		313	370,340

Monroe County Hospital Finance Authority, Refunding RB, Mercy		
Memorial Hospital Corp. Obligation,		
5.50%, 6/01/35 Royal Oak Hospital Finance Authority	1,260	980,570
Michigan, Refunding RB, William		
Beaumont Hospital, 8.25%, 9/01/39	2,575	2,985,507
		_
		4,880,298
Mississippi 0.6%		
Mississippi Business Finance Corp., RB,		
Waste Management Inc. Project, AMT,		
6.88%, 3/01/29	1,000	1,003,410
Missouri 0.5%		
Kansas City IDA Missouri, RB, First		
Mortgage, Bishop Spencer, Series A,		
6.50%, 1/01/35	1,000	853,180
	_	
BLACKROCK APEX MUNICIPAL FUND, INC.	JANUARY 31, 2010	3

BlackRock Apex Municipal Fund, Inc. (APX) (Percentages shown are based on Net Assets)

Multi-State 0.4% MuniMae TE Bond Subsidiary LLC, 7.50% (d)(f)(g) 691 640,739 Nevada 0.2% County of Clark, Nevada, Special Assessment Bonds, Special Improvement District No. 142, Local Improvement, 6.3%, 80/1/23 380 355,380 New Hampshire 0.4% New Hampshire 184th & Education Facilities Authority, RE Judician Edities Authority, Refunding RB, New Hampshire Health & Education Financing Authority, Refunding RB, New Hampshire Edit, Refunding RB, New Hampshire Health & Education Financing Authority, Refunding RB, New Hampshire BDA, RB, Continental Airlines Inc. Project, AMT, 6.53%, 9/15/12 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.53%, 9/15/12 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey Educational Facilities Authority, Refunding RB, Newark Altroptr Marriott Hotel, 7.00%, 100 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 120/1/2 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 120/132 New Jersey Health Care Facilities New Jersey Educational Facilities New Jersey Educational Facilities New Jersey Health Care Facilities N	Municipal Bonds	Par (000)	Value
Kirkwood Industrial Development Authority, Montana, RB, Aberdeen Heights, Series A, 8.25%, 5/15/39 (c) \$ 945 \$ 929,445 Multi-State 0.4% Munifies TE Bond Subsidiary LLC, 7.50% (d)(f)(g) 691 640,739 Nevada 0.2% County of Clark Nevada, Special Assessment Bonds, Special Improvement District No. 142, Local Improvement, 6.38%, 8/01/23 380 355,380 New Hampshire 0.4% New Hampshire 0.4% New Hampshire 1.4% Education Eacilities Authority, RB, Catholic Medical Center, 5.00%, 7/01/36 835 697,050 New Jersey 8.8% Canden County Pollution Control Financing Authority, Refunding RB, Series A, AMT, 7.50%, 12/01/10 4,885,928 New Jersey EDA, RB, Cigarette Tax, 5.50%, 6/15/24 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.63%, 9/15/12 3,050 3,001,932 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.63%, 9/15/12 3,050 3,001,932 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.50%, 9/15/129 1,000, 873,430 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.63%, 9/15/129 1,000 873,430 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.63%, 9/15/129 1,000 873,430 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.63%, 9/15/129 1,000 873,430 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.63%, 9/15/129 1,000 873,430 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.63%, 9/15/129 1,000 873,430 New Jersey Educational Facilities Authority, Refunding RB, Inviersity of Medicine & Dentistry, Series B, 7,50%, 1/20/132 1,005 1,005 7,506, 1/20/132 New Jersey Health Care Facilities Inviersity of Medicine & Dentistry, Series B, 7,50%, 1/20/132 New Jersey Health Care Facilities Inviersity of Medicine & Dentistry, Series B, 7,50%, 1/20/132 New Jersey Health Care Facilities Inviersity of Medicine & Dentistry, Series B, 7,50%, 1/20/132 New Jersey Health Care Facilities Inviersity of Medicine & Dentistry, Series B, 7,50%, 1/20/132 New Jersey Health Care Facilities Inviersity of Medicine & Dentistry, Series B, 7,50%, 1/20/132 New Jer	Montana 0.5%		
Authority, Montana, RB, Aberdeen Heights, Series A, 8.25%, 5/15/139 (c) \$ 929.445 Multi-State 0.4% Munti-State 0.4% Nevada 0.2% County of Clark Nevada, Special Sassesment Bonds, Special Improvement District No. 142, Local Improvement District No. 142, Local Improvement, 6.38%, 8011/23 New Hampshire 0.4% New Hampshire 0.4% New Hampshire 0.4% New Hampshire 1.8 State			
Heights, Series A, 8.25%, 5/15/39 (c) \$ 945			
MuniMar TE Bond Subsidiary LLC, 7.50% (d)(f)(g)	Heights, Series A, 8.25%, 5/15/39 (c)	\$ 945	\$ 929,445
MuniMar TE Bond Subsidiary LLC, 7.50% (d)(f)(g)			
Nevada 0.2% County of Clark Nevada, Special Assessment Bonds, Special Improvement, 6.38%, 8/01/23 New Hampshire 0.4% New Hampshire 10.4% New Hampshire Health & Education Realitities Authority, Ref. Catholic Medical Center, 5.00%, 7/01/36 New Jersey 8.8% Camden County Pollution Control Financing Authority, Ref. Catholic New Jersey 10.4, 12.01/10 New Jersey 10.4, 12.01	Multi-State 0.4%		
Newada 0.2% County of Clark Nevada, Special			< 10 -0 0
County of Clark Nevada, Special Assessment Bonds, Special Improvement District No. 142, Local Improvement, 6.38%, 8/01/23 380 355,380	7.50% (d)(f)(g)	691	640,739
County of Clark Nevada, Special Assessment Bonds, Special Improvement District No. 142, Local Improvement, 6.38%, 8/01/23 380 355,380	Nevada 0.2%		
Assesment Bonds, Special Improvement District No. 142, Local Improvement District No. 142, Local Improvement, 6.38%, 801/23 New Hampshire 0.4% New Hampshire Health & Education Facilities Authority, RB, Catholic Medical Center, 5.00%, 7/01/36 New Jersey 8.8% Camden County Pollution Control Financing Authority, Refunding RB, Series A, AMT, 7.50%, 12/01/10 New Jersey EDA, RB, Cigarette Tax, 5.50%, 6/15/24 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.35%, 9/15/12 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.55%, 9/15/29 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 12/01/23 New Jersey Educational Facilities Now, Jersey Health Care			
Improvement District No. 142, Local Improvement, 6.38%, 8/01/23 380 355,380 Improvement, 6.38%, 8/01/23 380 355,380 New Hampshire 0.4% Section 18	·		
Improvement, 6.38%, 8/01/23 New Hampshire 0.4% New Hampshire Health & Education Facilities Authority, RB, Catholic Medical Center, 5.00%, 7/01/36 New Jersey 8.8% Camden County Pollution Control Financing Authority, Refunding RB, Series A, AMT, 7.50%, 12/01/10 New Jersey EDA, RB, Cigarette Tax, 1,225 1,202,264 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.53%, 9/15/12 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.53%, 9/15/12 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.53%, 9/15/12 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.03%, 9/15/12 New Jersey EDA, Refunding RB, Newark Airport Marriott Hotel, 7.00%, 1,1000 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 1/20/123 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 1/20/132 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 1/20/132 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/10/136 (a)(b) 1,870 1,870 1,880 1,885 1,8			
New Hampshire Health & Education Facilities Authority, RB, Catholic Medical Center, 5.00%, 7/01/36 835 697,050 Medical Center, 5.00%, 7/01/36 835 697,050 Medical Center, 5.00%, 7/01/36 835 697,050 Mew Jersey 8.8% Series A, Ser	Improvement, 6.38%, 8/01/23	380	355,380
New Hampshire Health & Education Facilities Authority, RB, Catholic Medical Center, 5.00%, 7/01/36 835 697,050 Medical Center, 5.00%, 7/01/36 835 697,050 Medical Center, 5.00%, 7/01/36 835 697,050 Mew Jersey 8.8% Series A, Ser			
Facilities Åuthority, RB, Catholic Medical Center, 5.00%, 7/01/36 New Jersey 8.8% Camden County Pollution Control Financing Authority, Refunding RB, Series A, AMT, 7.50%, 12/01/10 New Jersey EDA, RB, Cigarette Tax, 5.50%, 6/15/24 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.36%, 9/15/12 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.36%, 9/15/12 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.37%, 9/15/29 New Jersey EDA, Refunding RB, Newark Airport Marriott Hotel, 7.00%, 10/01/14 10/01/14 10,00 10/01/14 10,00 10/01/15 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 12/01/23 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 12/01/23 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/10/136 (a)(b) New Jersey Health Care Facilities 1,680 1,685,779			
Medical Center, 5.00%, 7/01/36 New Jersey 8.8% Camden County Pollution Control Financing Authority, Refunding RB, Series A, AMT, 7.50%, 12/01/10 New Jersey BDA, RB, Cigarette Tax, 5.50%, 6/15/24 New Jersey BDA, RB, Cigarette Tax, 5.50%, 6/15/24 New Jersey BDA, RB, Continental Airlines Inc. Project, AMT, 6.63%, 9/15/12 New Jersey BDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey BDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey BDA, Refunding RB, Newark Airport Marriott Hotel, 7.00%, 10/01/14 1,500 1,482,825 New Jersey BDA, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 12/01/23 New Jersey BDA, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 12/01/32 New Jersey Hellh Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/10/1/36 (a)(b) New Jersey Hellth Care Facilities 1,680 1,685,779			
New Jersey 8.8% Camden County Pollution Control Financing Authority, Refunding RB, Series A, AMT, 7.50%, 12/01/10 4.885 Series A, AMT, 7.50%, 12/01/10 4.885 Series A, AMT, 7.50%, 12/01/10 4.885 4.885,928 New Jersey EDA, RB, Cigarette Tax, 5.50%, 6/15/24 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.63%, 9/15/12 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, Refunding RB, Newark Airport Marriott Hotel, 7.00%, 10/01/14 1,500 1,482,825 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7,13%, 12/01/23 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7,50%, 12/01/32 1,065 1,005, 57,50%, 12/01/32 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) 1,870 1,685,779		925	(07.050
Camden County Pollution Control Financing Authority, Refunding RB, Series A, AMT, 7.50%, 12/01/10 4,885 4,885,928 New Jersey EDA, RB, Cigarette Tax,	Medical Center, 5.00%, //01/36	833	697,050
Camden County Pollution Control Financing Authority, Refunding RB, Series A, AMT, 7.50%, 12/01/10 4,885 4,885,928 New Jersey EDA, RB, Cigarette Tax,	New Jersey 8.8%		
Financing Authority, Refunding RB, Series A, AMT, 7.50%, 12/01/10 4,885, 928 New Jersey EDA, RB, Cigarette Tax, 5.50%, 6/15/24 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.63%, 9/15/12 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/12 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, Refunding RB, Newark Airport Marriott Hotel, 7.00%, 10/01/14 1,500 1,482,825 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 12/01/23 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 12/01/32 1,065 1,200,575 New Jersey Health Care Facilities Valley Hospital Association, 6.63%, 7/01/36 (a)(b) 1,870 19 New Jersey Health Care Facilities			
Series A, AMT, 7.50%, 12/01/10 4,885 4,885,928 New Jersey EDA, RB, Cigarette Tax, 5,50%, 6/15/24 1,225 1,202,264 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.63%, 9/15/12 3,050 3,001,932 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, Refunding RB, Newark Airport Marriott Hotel, 7.00%, 10/01/14 1,500 1,482,825 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 12/01/23 670 759,619 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 12/01/32 1,065 1,200,575 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) 1,870 19 New Jersey Health Care Facilities	Financing Authority, Refunding RB,		
5.50%, 6/15/24 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.63%, 9/15/12 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, Refunding RB, Newark Airport Marriott Hotel, 7.00%, 10/01/14 1,500 1,482,825 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 12/01/23 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 12/01/32 1,065 1,200,575 New Jersey Health Care Facilities Valley Hospital Association, 6.63%, 7/10/136 (a)(b) 1,870 1,685,779 New Jersey Health Care Facilities	Series A, AMT, 7.50%, 12/01/10	4,885	4,885,928
New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.63%, 9/15/12 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/12 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 Inc. Project, AMT, 6.63%, 9/15/29 Inc. Project, AMT, 6.25%, 9/15/29 Inc. Project, AMT,	New Jersey EDA, RB, Cigarette Tax,		
Inc. Project, AMT, 6.63%, 9/15/12 New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, Refunding RB, Newark Airport Marriott Hotel, 7.00%, 10/01/14 1,500 1,482,825 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 12/01/23 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 12/01/32 1,065 1,200,575 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) New Jersey Health Care Facilities	5.50%, 6/15/24	1,225	1,202,264
New Jersey EDA, RB, Continental Airlines Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, Refunding RB, Newark Airport Marriott Hotel, 7.00%, 10/01/14 1,500 1,482,825 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 12/01/23 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 12/01/32 1,065 1,200,575 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) 1,870 19 New Jersey Health Care Facilities	New Jersey EDA, RB, Continental Airlines		
Inc. Project, AMT, 6.25%, 9/15/29 New Jersey EDA, Refunding RB, Newark Airport Marriott Hotel, 7.00%, 10/01/14 1,500 1,482,825 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 12/01/23 670 759,619 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.150%, 12/01/32 1,065 1,200,575 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) 1,870 19 New Jersey Health Care Facilities 1,680 1,685,779	Inc. Project, AMT, 6.63%, 9/15/12	3,050	3,001,932
New Jersey EDA, Refunding RB, Newark Airport Marriott Hotel, 7.00%, 10/01/14 1,500 1,482,825 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 12/01/23 670 759,619 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 12/01/32 1,065 1,200,575 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) 1,870 19 New Jersey Health Care Facilities 1,680 1,685,779			
Airport Marriott Hotel, 7.00%, 10/01/14 1,500 1,482,825 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 12/01/23 670 759,619 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 12/01/32 1,065 1,200,575 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) 1,870 19 New Jersey Health Care Facilities 1,680 1,685,779		1,000	873,430
10/01/14 1,500 1,482,825 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 12/01/23 670 759,619 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 12/01/32 1,065 1,200,575 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) 1,870 19 New Jersey Health Care Facilities 1,680 1,685,779			
New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 12/01/23 670 759,619 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 12/01/32 1,065 1,200,575 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) 1,870 19 New Jersey Health Care Facilities 1,680 1,685,779	-	1.500	1 402 025
Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.13%, 12/01/23 670 759,619 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 12/01/32 1,065 1,200,575 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) 1,870 19 New Jersey Health Care Facilities 1,680 1,685,779		1,500	1,482,825
Medicine & Dentistry, Series B, 670 759,619 7.13%, 12/01/23 670 759,619 New Jersey Educational Facilities 4uthority, Refunding RB, University of Medicine & Dentistry, Series B, 1,065 1,200,575 7.50%, 12/01/32 1,065 1,200,575 New Jersey Health Care Facilities 5 1,065 1,200,575 Financing Authority, RB, Pascack 4 <			
7.13%, 12/01/23 New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 12/01/32 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) New Jersey Health Care Facilities 1,680 1,685,779			
New Jersey Educational Facilities Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 12/01/32 1,065 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) 1,870 19 New Jersey Health Care Facilities 1,680 1,685,779	•	670	750 610
Authority, Refunding RB, University of Medicine & Dentistry, Series B, 7.50%, 12/01/32 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) New Jersey Health Care Facilities 1,680 1,685,779		070	759,019
Medicine & Dentistry, Series B, 1,065 1,200,575 7.50%, 12/01/32 1,065 1,200,575 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 1,870 19 New Jersey Health Care Facilities 1,680 1,685,779			
7.50%, 12/01/32 1,065 1,200,575 New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) 1,870 19 New Jersey Health Care Facilities 1,680 1,685,779			
New Jersey Health Care Facilities Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) 1,870 19 New Jersey Health Care Facilities 1,680 1,685,779		1 065	1 200 575
Financing Authority, RB, Pascack Valley Hospital Association, 6.63%, 7/01/36 (a)(b) New Jersey Health Care Facilities 1,680 1,870 1,685,779		1,005	1,200,373
Valley Hospital Association, 6.63%, 1,870 19 7/01/36 (a)(b) 1,680 1,685,779 New Jersey Health Care Facilities 1,680 1,685,779			
7/01/36 (a)(b) 1,870 19 New Jersey Health Care Facilities 1,680 1,685,779	· · · · · · · · · · · · · · · · · · ·		
New Jersey Health Care Facilities 1,680 1,685,779	7/01/36 (a)(b)	1,870	19
	New Jersey Health Care Facilities		
	Financing Authority, Refunding RB, St.		

5 5				
Joseph s Healthcare System, 6.63%, 7/01/38				
New Jersey Transportation Trust Fund Authority, RB, CAB, Transportation				
System, Series C (AMBAC), 5.05%, 12/15/35 (e)	2,7	760		557,161
			_	15,649,532
New York 6.2%				
Brooklyn Arena Local Development Corp., RB, Barclays Center Project, 6.38%, 7/15/43	,	685		699,344
Chautauqua County Industrial				277,2
Development Agency, RB, NRG Dunkirk Power Project, 5.88%,				
4/01/42	1,7	710		1,735,171
	Par			
Municipal Bonds	(000)			Value
New York (concluded)				
Dutchess County Industrial Development Agency New York, RB,				
St. Francis Hospital, Series B, 7.50%,				
3/01/29	\$ 1,0	000	\$	983,000
Metropolitan Transportation Authority,	2.4	000		2 282 020
RB, Series 2008-C, 6.50%, 11/15/28 New York City Industrial Development	2,(000		2,283,020
Agency, RB, American Airlines Inc.,				
JFK International Airport, AMT, 8.00%,	_	700		522 102
8/01/28 New York City Industrial Development		720		722,102
Agency, RB, British Airways Plc				
Project, AMT, 7.63%, 12/01/32	1,7	730		1,579,836
New York City Industrial Development Agency, RB, Series C, 6.80%,				
6/01/28		350		368,732
New York City Industrial Development				
Agency, RB, Special Needs Facilities				
Pooled Program, Series C-1, 6.50%, 7/01/24	:	830		763,700
New York Liberty Development Corp.,				,
RB, National Sports Museum Project,		620		6
Series A, 6.13%, 2/15/19 (a)(b) New York State Dormitory Authority, RB,	•	630		6
North Shore-Long Island Jewish				
Health System, Series A, 5.50%,		000		1 000 570
5/01/37 Yonkers Industrial Development Agency	1,0	000		1,008,570
New York, RB, Sarah Lawrence				
College Project, Series A, 6.00%,				
6/01/41	•	850		877,600
				11,021,081
North Carolina 1.8% North Carolina Medical Care	3 /	230		3,150,800
Commission, Refunding RB, First	3,.	250		3,130,600

Mortgage, Deerfield, Ser 11/01/38	ies A, 6.13%,		
Ohio 2.5%			
Buckeye Tobacco Settler	<u> </u>		
Authority, RB, Asset-Ba Series A-2, 5.13%, 6/01/	·	2,490	2,304,818
Buckeye Tobacco Settler		2,490	2,304,616
Authority, RB, Asset-Ba	cked, Senior		
Series A-2, 6.50%, 6/01/	47	2,685	2,251,695
			4,556,513
			4,330,313
Pennsylvania 7.9%			
Allegheny County Hospi			
Authority, Refunding RE			
System, West Penn, Serio 11/15/40	es A, 5.38%,	2,385	1,752,951
Bucks County IDA, RB,	Ann s Choice Inc.	_,	2,702,700
Facility, Series A, 6.13%		1,160	1,086,201
Cumberland County Mur RB, Diakon Lutheran, 6.			
1/01/39	50%,	2,510	2,449,986
Lancaster County Hospit			
Brethren Village Project, 6.25%, 7/01/26	Series A,	475	457,529
0.25 %, 1/01/20		4/3	431,329
4	BLACKROCK APEX MUNICIPAL FUND, INC.	JANUARY 31, 2010	

BlackRock Apex Municipal Fund, Inc. (APX) (Percentages shown are based on Net Assets)

Municipal Bonds	Par (000)	Value
Pennsylvania (concluded)		
Lancaster County Hospital Authority, RB,		
Brethren Village Project, Series A,		
6.50%, 7/01/40	\$ 410	\$ 384,297
Montgomery County IDA Pennsylvania, MRB, Whitemarsh Continuing Care,		
6.25%, 2/01/35	1,700	1,244,570
Pennsylvania Higher Educational	1,700	1,244,370
Facilities Authority, Refunding RB,		
Allegheny Delaware Valley Obligation,		
Series A (NPFGC), 5.88%, 11/15/21	2,320	2,216,273
Philadelphia Authority for Industrial		
Development, RB, Commercial	2,000	2,000,520
Development, AMT, 7.75%, 12/01/17 Philadelphia Authority for Industrial	3,000	2,999,520
Development, RB, Subordinate, Air		
Cargo, Series A, AMT, 7.50%,		
1/01/25	1,600	1,496,880
		-
		14,088,207
Puerto Rico 1.1%		
Puerto Rico Public Buildings Authority,		
Refunding RB, Series Q, 5.63%,		
7/01/39	985	940,734
Puerto Rico Sales Tax Financing Corp., RB, First Sub-Series A, 6.50%,		
8/01/44	1,000	1,067,160
0/01/11	1,000	1,007,100
		2,007,894
Rhode Island 0.8%		
Central Falls Detention Facility Corp.,		4 404 = 20
Refunding RB, 7.25%, 7/15/35	1,750	1,494,728
South Carolina 0.6%		
Connector 2000 Association Inc., RB,		
CAB, Senior Series B, 9.22%,		
1/01/14 (a)(b)(e)	1,075	206,400
South Carolina Jobs EDA, Refunding RB,		
Palmetto Health, 5.50%, 8/01/26	670	664,124
South Carolina Jobs EDA, Refunding RB,	272	261 420
Palmetto Health, 5.75%, 8/01/39	270	261,438
		1 101 072
		1,131,962

o o		
Tennessee 0.1%		
Shelby County Health Educational &		
Housing Facilities Board, RB, Village		
at Germantown, 6.25%, 12/01/34	245	205,543
Texas 9.9%		
Bexar County Health Facilities		
Development Corp., RB, Army		
Retirement Residence Project, 6.20%,		
7/01/45 (c)	2,055	2,054,877
Brazos River Authority, Refunding RB,		
TXU Electric Co. Project, Series C,		
AMT, 5.75%, 5/01/36	1,475	1,386,765
Brazos River Authority, Refunding RB,		
Texas Utility Co., Series, AMT, 7.70%,		
4/01/33	2,530	1,644,955
	_	
Municipal Dands	Par (000)	Value
Municipal Bonds	(000)	value
Texas (concluded)		
City of Houston Texas, RB, Special		
Facilities, Continental Airlines,		
Series E, AMT, 6.75%, 7/01/21	\$ 1,865	\$ 1,780,739
Danbury Higher Education Authority Inc.,		
RB, A.W. Brown Fellowship Charter,		
Series A (ACA), 5.13%, 8/15/36	1,000	820,650
Harris County Health Facilities		
Development Corp., Refunding RB,		
Memorial Hermann Healthcare		
System, B, 7.25%, 12/01/35	1,110	1,243,600
Matagorda County Navigation District		
No. 1 Texas, Refunding RB, Central		
Power & Light Co. Project, Series A,		
6.30%, 11/01/29	850	918,306
North Texas Tollway Authority, RB, Toll,		
Second Tier, Series F, 6.13%,		
1/01/31	1,650	1,725,157
Tarrant County Cultural Education		
Facilities Finance Corp., RB, CC Young		
Memorial Home, Series A, 8.00%,		
2/15/38	710	693,848
Tarrant County Cultural Education		
Facilities Finance Corp., RB, Senior		
Living Center Project, Series A, 8.25%,		
11/15/44	1,710	1,656,580
Texas Private Activity Bond Surface		
Transportation Corp., RB, Senior Lien,		
Note Mobility, 6.88%, 12/31/39	1,605	1,670,757
Texas State Public Finance Authority,		
Refunding, ERB, Kipp Inc., Series A		
(ACA), 5.00%, 2/15/28	2,250	2,033,865
		17,630,099
Utah 1.3%		
County of Carbon Utah, Refunding RB,	2,240	2,243,427
Laidlaw Environmental, Series A, AMT,	2,210	=,2 .5, .21

7.45%, 7/01/17		
Virgin Islands 1.4%		
United States Virgin Islands, Refunding		
RB, Senior Secured, Hovensa Coker	2.100	2 122 700
Project, AMT, 6.50%, 7/01/21 Virgin Islands Public Finance Authority,	2,100	2,123,709
RB, Senior Lien, Capital Projects,		
Series A-1, 5.00%, 10/01/39	340	302,110
		2,425,819
		_
Virginia 1.7% Dulles Town Center Community		
Development Authority, Special		
Assessment Bonds, Dulles Town		
Center Project, 6.25%, 3/01/26	2,385	2,228,997
Tobacco Settlement Financing Corp. Virginia, Refunding RB,		
Senior Series B1, 5.00%, 6/01/47	1,250	871,363
,,		
		3,100,360
BLACKROCK APEX MUNICIPAL FUND, INC.	JANUARY 31, 2010	:

BlackRock Apex Municipal Fund, Inc. (APX) (Percentages shown are based on Net Assets)

Municipal Bonds	Par (000)	Value
Wisconsin 1.7%		
Wisconsin Health & Educational		
Facilities Authority, RB, New Castle Place Project, Series A, 7.00%,		
12/01/31	\$ 1,320	\$ 1,252,152
Wisconsin Health & Educational	Ψ 1,520	Ψ 1,232,132
Facilities Authority, RB, Wheaton		
Franciscan Healthcare, 5.25%,		
8/15/34	1,425	1,237,669
Wisconsin Health & Educational Facilities Authority, Refunding RB,		
St. John s Communities Inc., Series A,		
7.25%, 9/15/29	175	177,825
Wisconsin Health & Educational		
Facilities Authority, Refunding RB,		
St. John s Communities Inc., Series A,	350	250 256
7.63%, 9/15/39	330	358,256
		3,025,902
Wyoming 1.3%		
County of Sweetwater Wyoming,		
Refunding RB, FMC Corp. Project,		
AMT, 5.60%, 12/01/35	2,500	2,296,950
Total Municipal Bonds 96.6%		172,308,226

Municipal Bonds Transferred to Tender
Ontion Rond Trusts (h)

District of Columbia 1.7% District of Columbia Water & Sewer Authority, RB, Series A, 6.00%, 10/01/35	2,730	3,048,601
Florida 3.4% County of Miami-Dade Florida, RB, Miami International Airport, Series A, AMT (AGC), 5.25%, 10/01/33	6,130	6,063,980

Virginia 3.2% Virginia HDA, RB, Sub-Series H-1 (NPFGC), 5.38%, 7/01/36	5,710	5,753,624
Total Municipal Bonds Transferred to Tender Option Bond Trusts 8.3%		14,866,205
Total Long-Term Investments (Cost \$194,671,060) 104.9%		187,174,431

Short-Term Securities	Shares	
FFI Institutional Tax-Exempt Fund, 0.16% (i)(j)	2,416,026	2,416,026
Total Short-Term Securities (Cost \$2,416,026) 1.4%		2,416,026

	Value
Total Investments	
(Cost \$197,087,086*) 106.3%	\$ 189,590,457
Liabilities in Excess of Other Assets (2.2)%	(3,923,065)
Liability for Trust Certificates, Including Interest	
Expense and Fees Payable (4.1)%	(7,291,232)
Net Assets 100.0%	\$ 178,376,160

* The cost and unrealized appreciation (depreciation) of investments as of January 31, 2009, as computed for federal income tax purposes, were as follows:

Aggregate cost	\$ 189,822,719
Gross unrealized appreciation	\$ 8,136,408
Gross unrealized depreciation	(15,654,116)
·	
Net unrealized depreciation	\$ (7,517,708)

- (a) Issuer filed for bankruptcy and/or is in default of interest payments.
- (b) Non-income producing security.
- (c) When-issued security. Unsettled when-issued security transactions were as follows:

Counterparty	Market Value		Unrealized Appreciation (Depreciation)	
B.C. Ziegler	\$ 929,445	\$	9	
Raymond C Forbes	\$ 2,054,877	\$	(123)	
Stone & Youngberg	\$ 1,610,612	\$	612	

- (d) Security exempt from registration under Rule 144A of the Securities Act of 1933. These securities may be resold in transactions exempt from registration to qualified institutional investors.
- (e) Represents a zero-coupon bond. Rate shown reflects the current yield as of report date
- (f) Security represents a beneficial interest in a trust. The collateral deposited into the trust is federally tax-exempt revenue bonds issued by various state or local governments, or their respective agencies or authorities. The security is subject to remarketing prior to its stated maturity and is subject to mandatory redemption.
- (g) Security is perpetual in nature and has no stated maturity date.
- (h) Securities represent bonds transferred to a tender option bond trust in exchange for which the Fund acquired residual interest certificates. These securities serve as collateral in a financing transaction.
- (i) Investments in companies considered to be an affiliate of the Fund, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, were as follows:

Affiliate	Net Activity Income				
FFI Institutional Tax-Exempt Fund	\$	2,316,020	\$	2,542	

(J) K	Represents	the	current	yıeld	l as c	of report	date.
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6 BLACKROCK APEX MUNICIPAL FUND, INC. JANUARY 31, 2010

BlackRock Apex Municipal Fund, Inc. (APX)

Fair Value Measurements Various inputs are used in determining the fair value of investments, which are as follows:

Level 1 price quotations in active markets/exchanges for identical assets and liabilities

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 Fund s own assumptions used in determining the fair value of investments)

The inputs or methodologies used for valuing securities are not necessarily an indication of the risk associated with investing in those securities. For information about the Fund s policy regarding valuation of investments and other significant accounting policies, please refer to Fund s most recent financial statements as contained in its semi-annual report.

The following table summarizes the inputs used as of January 31, 2010 in determining the fair valuation of the Fund s investments:

Valuation Inputs	Investments in Securities
	Assets
Level 1 - Short-Term Securities Level 2 - Long-Term Investments ¹ Level 3	\$ 2,416,026 187,174,431
Total	\$ 189,590,457

¹See above Schedule of Investments for values in each state or political subdivision.

BLACKROCK APEX MUNICIPAL FUND, INC.	JANUARY 31, 2010	7

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 13(a)-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 Apex Municipal Fund, Inc.

By: /s/ Anne F. Ackerley
Anne F. Ackerley
Chief Executive Officer of
BlackRock Apex Municipal Fund,
Inc.

Date: March 19, 2010

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/ Anne F. Ackerley
Anne F. Ackerley
Chief Executive Officer (principal executive officer) of
BlackRock Apex Municipal Fund,
Inc.

Date: March 19, 2010

By: /s/ Neal J. Andrews
Neal J. Andrews
Chief Financial Officer (principal financial officer) of
BlackRock Apex Municipal Fund,

Inc.

Date: March 19, 2010