BLACKROCK APEX MUNICIPAL FUND INC

Form N-O November 29, 2007

> 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: Donald C. Burke, Chief Executive Officer, BlackRock Apex Municipal Fund, Inc., 800 Scudders Mill Road, Plainsboro, NJ 08536. Mailing address: P.O. Box 9011, Princeton, NJ 08543-9011

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

Date of fiscal year end: 06/30/2008

Date of reporting period: 07/01/2007 - 09/30/2007

Item 1 - Schedule of Investments

BlackRock Apex Municipal Fund, Inc. Schedule of Investments as of September 30, 2007 (Unaudited) (in Thousands)

1,000

Pima County, Arizona, IDA, Education Revenue Bonds (Ari

Project), Series E, 7.25% due 7/01/2031

State		e Municipal Bonds
Alabama - 0.7%	\$ 1,25	Tuscaloosa, Alabama, Special Care Facilities Financing Residential Care Facility Revenue Bonds (Capstone Villa Series A, 5.875% due 8/01/2036
Alaska - 1.1%	,	Alaska Industrial Development and Expert Authority Reve Lynxs Alaska Cargoport), AMT, 8% due 5/01/2023
Arizona - 3.4%	900 4! 20 1,020 2,95	Maricopa County, Arizona, IDA, Education Revenue Bonds Schools Project 1), Series A, 6.625% due 7/01/2020 Maricopa County, Arizona, IDA, M/F Housing Revenue Bond Apartments Project), Series A, 5.875% due 11/01/2008 Maricopa County, Arizona, IDA, M/F Housing Revenue Bond Apartments Project), Series A, 6% due 11/01/2010 Maricopa County, Arizona, IDA, M/F Housing Revenue Bond Apartments Project), Series A, 6.75% due 5/01/2031
	2,950	West Airlines Inc. Project), AMT, 6.30% due 4/01/2023

	500	Yavapai County, Arizona, IDA, Hospital Facility Revenue Regional Medical Center), Series A, 6% due 8/01/2033
California - 2.3%	1,800 1,300 1,000	California State, GO, 5% due 2/01/2014 (a) California State, Various Purpose, GO, 5.25% due 11/01/ Fontana, California, Special Tax, Refunding (Community Number 22 - Sierra), 6% due 9/01/2034
Colorado - 4.3%	450	Colorado Health Facilities Authority, Revenue Refunding Living Communities Project), Series A, 5.75% due 1/01/2
	2,800	Elk Valley, Colorado, Public Improvement Revenue Bonds Fee), Series A, 7.30% due 9/01/2022
	1,235	North Range Metropolitan District Number 1, Colorado, G due 12/15/2011 (a)
	2,000	Plaza Metropolitan District Number 1, Colorado, Tax All Bonds (Public Improvement Fees), 8% due 12/01/2025
	500	Plaza Metropolitan District Number 1, Colorado, Tax All Bonds (Public Improvement Fees), 8.125% due 12/01/2025
	830	Southlands, Colorado, Medical District, GO (Metropolit 1), 7.125% due 12/01/2014 (a)

Portfolio Abbreviations

To simplify the listings of BlackRock Apex Municipal Fund, Inc.'s portfolio holdings in the Schedule of Investments, we have abbreviated the names of many of the securities according to the list below.

AMT	Alternative Minimum Tax (subject to)
EDA	Economic Development Authority
GO	General Obligation Bonds
HFA	Housing Finance Agency
IDA	Industrial Development Authority
IDR	Industrial Development Revenue Bonds
M/F	Multi-Family
PCR	Pollution Control Revenue Bonds
RIB	Residual Interest Bonds
VRDN	Variable Rate Demand Notes

BlackRock Apex Municipal Fund, Inc. Schedule of Investments as of September 30, 2007 (Unaudited) (in Thousands)

State		ace unt	Municipal Bonds
Connecticut - 1.3%	·	490 890	Connecticut State Development Authority, Airport Facili (Learjet Inc. Project), AMT, 7.95% due 4/01/2026 Connecticut State, HFA, Housing Mortgage Finance Progra AMT, Sub-Series A-2, 5.15% due 5/15/2038
Florida - 10.2%		800	Capital Projects Finance Authority, Florida, Continuing Revenue Bonds (Glenridge on Palmer Ranch), Series A, 8% Halifax Hospital Medical Center, Florida, Hospital Reve Series A, 5% due 6/01/2038
		850	Highlands County, Florida, Health Facilities Authority,

Bonds (Adventist Health System), Series C, 5.25% due 11

	2,500	Hillsborough County, Florida, IDA, Exempt Facilities Re Gypsum Company), AMT, Series A, 7.125% due 4/01/2030
	1,000	Jacksonville, Florida, Economic Development Commission, Facilities, Revenue Refunding Bonds (Florida Proton The
	900	Series A, 6% due 9/01/2017 Jacksonville, Florida, Economic Development Commission,
	750	Ameristeel US, Inc.), AMT, 5.30% due 5/01/2037 Lakewood Ranch, Florida, Community Development District Assessment Revenue Refunding Bonds, Series A, 6.70% due
	1,810	Lee County, Florida, IDA, IDR (Lee Charter Foundation), due 6/15/2037
	1,500	Midtown Miami, Florida, Community Development District, Revenue Bonds, Series A, 6% due 5/01/2024
	1,350	Midtown Miami, Florida, Community Development District, Revenue Bonds, Series A, 6.25% due 5/01/2037
	1,525	Orlando, Florida, Urban Community Development District, Special Assessment Bonds, Series A, 6.95% due 5/01/2033
	2,140	Santa Rosa Bay Bridge Authority, Florida, Revenue Bonds due 7/01/2028
	590	Sarasota County, Florida, Health Facilities Authority, Revenue Refunding Bonds (Village on the Isle Project),
	550	Sarasota County, Florida, Health Facilities Authority, Revenue Refunding Bonds (Village on the Isle Project),
	2,385	Tampa Palms, Florida, Open Space and Transportation Com District Revenue Bonds, Capital Improvement (Richmond P 7.50% due 5/01/2018
Georgia - 4.3%	2,000	Atlanta, Georgia, Tax Allocation Bonds (Atlantic Statio due 12/01/2011 (a)
	495	Atlanta, Georgia, Tax Allocation Bonds (Princeton Lakes due 1/01/2031
	830	Brunswick and Glynn County, Georgia, Development Author Revenue Bonds (Coastal Community Retirement Corporation 7.125% due 1/01/2025 (i)
	1,185	Brunswick and Glynn County, Georgia, Development Author Revenue Bonds (Coastal Community Retirement Corporation 7.25% due 1/01/2035 (i)
	1,580	Fulton County, Georgia, Development Authority, PCR, Ref Motors Corporation), VRDN, 7% due 4/01/2010 (d)
	690	Gainesville, Georgia, Redevelopment Authority, Educatio

BlackRock Apex Municipal Fund, Inc.
Schedule of Investments as of September 30, 2007 (Unaudited) (in Thousands)

State	Face Amount	Municipal Bonds
	\$ 1,680	Rockdale County, Georgia, Development Authority Revenue Project), AMT, Series A, 6.125% due 1/01/2034
Idaho - 0.8%	 1,470	Idaho Health Facilities Authority, Revenue Refunding Bo Care Corporation), Series A, 7.75% due 11/15/2016
Illinois - 6.1%	 1 , 845	Caseyville, Illinois, Senior Tax Increment Revenue Bond Project), 7% due 12/30/2022

Revenue Refunding Bonds (Riverside Military Academy), 5

2,860 Chicago, Illinois, O'Hare International Airport, Specia

	2,050 430 490 755 2,400 265	Refunding Bonds (American Airlines Inc. Project), 5.50% Illinois State Finance Authority Revenue Bonds (Clare A Project), Series A, 6.125% due 5/15/2038 Illinois State Finance Authority Revenue Bonds (Landing Project), Series A, 6% due 5/15/2037 Illinois State Finance Authority Revenue Bonds (Primary Program), 6.60% due 7/01/2024 Lincolnshire, Illinois, Special Service Area Number 1, (Sedgebrook Project), 6.25% due 3/01/2034 Lombard, Illinois, Public Facilities Corporation, First (Conference Center and Hotel), Series A-1, 7.125% due 1 Naperville, Illinois, IDR (General Motors Corporation),
	760	due 12/01/2012 (d) Village of Wheeling, Illinois, Revenue Bonds (North Mil Increment Financing (TIF) Redevelopment Project), 6% du
Indiana - 1.9%	1,985	Indiana Health and Educational Facilities Financing Aut Revenue Bonds (Community Foundation of Northwest Indian due 3/01/2037
	820 440	Vanderburgh County, Indiana, Redevelopment Commission, District Tax Allocation Bonds, 5.25% due 2/01/2031 Vigo County, Indiana, Hospital Authority Revenue Bonds
	545	<pre>Inc.), 5.70% due 9/01/2037 Vigo County, Indiana, Hospital Authority Revenue Bonds Inc.), 5.75% due 9/01/2042</pre>
Iowa - 1.6%	2,635	Iowa Finance Authority, Health Care Facilities, Revenue (Care Initiatives Project), 9.25% due 7/01/2011 (a)
Kansas - 0.6%	1,230	Wyandotte County, Kansas, Kansas City Unified Governmen Bonds (General Motors Corporation Project), 6% due 6/01
Louisiana - 0.7%	1,300	
Maine - 0.4%	840	Maine Finance Authority, Solid Waste Recycling Faciliti (Great Northern Paper Project-Bowater), AMT, 7.75% due
Maryland - 2.0%	385 620	Baltimore, Maryland, Convention Center Hotel Revenue Bo 5.875% due 9/01/2039 Howard County, Maryland, Retirement Community Revenue R (Columbia Vantage House Corporation), Series B, 5.25% d
	1,500 1,000 410	Maryland State Energy Financing Administration, Limited Bonds (Cogeneration-AES Warrior Run), AMT, 7.40% due 9/ Maryland State Health and Higher Educational Facilities Bonds (King Farm Presbyterian Community), Series A, 5.2 Maryland State Health and Higher Educational Facilities Bonds (Washington Christian Academy), 5.50% due 7/01/20

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	Face	
State	Amount	Municipal Bonds

Massachusetts - 3.4%	\$ 1,845 1,245 850 1,245 500 800	Massachusetts State Development Finance Agency, First M Bonds (Overlook Communities Inc.), Series A, 6.25% due Massachusetts State Development Finance Agency, Revenue (Eastern Nazarene College), 5.625% due 4/01/2019 Massachusetts State Health and Educational Facilities A Bonds (Jordan Hospital), Series E, 6.75% due 10/01/2033 Massachusetts State Health and Educational Facilities A Refunding Bonds (Bay Cove Human Services Issue), Series due 4/01/2028 Massachusetts State Health and Educational Facilities A Refunding Bonds (Milton Hospital), Series, 5.50% due 7/Massachusetts State Industrial Finance Agency Revenue B (Resource Control Composting), AMT, 9.25% due 6/01/2010
Michigan - 1.2%	 1,150 1,260	Macomb County, Michigan, Hospital Finance Authority, Ho (Mount Clemens General Hospital), Series B, 5.875% due Monroe County, Michigan, Hospital Financing Authority, Refunding Bonds (Mercy Memorial Hospital Corporation),
Missouri - 1.5%	610 1,155 1,000	Branson, Missouri, Regional Airport Transportation Deve Airport Revenue Bonds, AMT, Series B, 6% due 7/01/2037 Fenton, Missouri, Tax Increment Revenue Refunding and I (Gravois Bluffs), 7% due 10/01/2011 (a) Kansas City, Missouri, IDA, First Mortgage Health Facil (Bishop Spencer Place), Series A, 6.50% due 1/01/2035
Nevada - 0.2%	 425	Clark County, Nevada, Improvement District Number 142, Bonds, 6.375% due 8/01/2023
New Hampshire - 1.5%	 835 2,185	New Hampshire Health and Education Facilities Authority Bonds (Catholic Medical Center), 5% due 7/01/2036 New Hampshire State Business Financing Authority, Solid Revenue Bonds (Waste Management Inc. Project), AMT, 5.2
New Jersey - 12.7%	6,000 2,170 1,500 1,000 3,700 3,050 1,000 1,870 2,760 1,075	Camden County, New Jersey, Pollution Control Financing Waste Resource Recovery, Revenue Refunding Bonds, AMT, due 12/01/2010 New Jersey EDA, Cigarette Tax Revenue Bonds, 5.50% due New Jersey EDA, IDR, Refunding (Newark Airport Marriott due 10/01/2014 New Jersey EDA, Retirement Community Revenue Bonds (Ced Inc. Facility), Series A, 7.25% due 11/15/2011 (a) New Jersey EDA, Retirement Community Revenue Bonds (Sea Series A, 8.125% due 11/15/2010 (a) New Jersey EDA, Special Facility Revenue Bonds (Contine Project), AMT, 6.625% due 9/15/2012 New Jersey EDA, Special Facility Revenue Bonds (Contine Project), AMT, 6.25% due 9/15/2029 New Jersey Health Care Facilities Financing Authority R (Pascack Valley Hospital Association), 6.625% due 7/01/ New Jersey State Transportation Trust Fund Authority, T Revenue Bonds, Series C, 5.05% due 12/15/2035 (b) (c) Tobacco Settlement Financing Corporation of New Jersey, Revenue Bonds, 7% due 6/01/2013 (a)

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State	Face Amount	Municipal Bonds
	\$ 1,100 1,270	Tobacco Settlement Financing Corporation of New Jersey, Revenue Bonds, 5.75% due 6/01/2032 Tobacco Settlement Financing Corporation of New Jersey, Bonds, Series 1A, 5% due 6/01/2041
New Mexico - 2.6%	5,000	Farmington, New Mexico, PCR, Refunding (Tucson Electric Juan Project), Series A, 6.95% due 10/01/2020
New York - 4.1%	1,000 1,890	Dutchess County, New York, IDA, Civic Facility Revenue Hospital), Series B, 7.50% due 3/01/2029 Erie County, New York, IDA, Revenue Bonds (Orchard Park
	350	Project), Series A, 6% due 11/15/2036 New York City, New York, City IDA, Civic Facility Reven 6.80% due 6/01/2028
	830	New York City, New York, City IDA, Civic Facility Reven Needs Facility Pooled Program), Series C-1, 6.50% due 7
	1,730 630	New York City, New York, City IDA, Special Facility Rev Airways Plc Project), AMT, 7.625% due 12/01/2032 New York Liberty Development Corporation Revenue Bonds
	1,180	Museum Project), Series A, 6.125% due 2/15/2019 Westchester County, New York, IDA, Continuing Care Reti Revenue Bonds (Kendal on Hudson Project), Series A, 6.5
North Carolina - 0.6%	1,000	North Carolina Medical Care Commission, Retirement Faci Mortgage Revenue Bonds (Givens Estates Project), Series due 7/01/2013 (a)
Oklahoma - 0.5%	925	Oklahoma State Development Finance Authority, Revenue R (Saint John Health System), 5% due 2/15/2042
Pennsylvania - 7.2%	250	Allegheny County, Pennsylvania, IDA, Lease Revenue Refu (Residential Resources Inc. Project), 5.125% due 9/01/2
	1,160	Bucks County, Pennsylvania, IDA, Retirement Community R Choice Inc.), Series A, 6.125% due 1/01/2025
	1,750	Chester County, Pennsylvania, Health and Education Faci Senior Living Revenue Refunding Bonds (Jenners Pond Inc 7.625% due 7/01/2012 (a)
	600	Harrisburg, Pennsylvania, Authority, University Revenue University of Science), Series B, 6% due 9/01/2036
	1,825	Montgomery County, Pennsylvania, Higher Education and H Revenue Bonds (Faulkeways at Gwynedd Project), 6.75% du
	1,700	Montgomery County, Pennsylvania, IDA, Revenue Bonds (Wh Care Project), 6.25% due 2/01/2035
	1,600	Philadelphia, Pennsylvania, Authority for IDR (Air Carg 7.50% due 1/01/2025
	4,460	Philadelphia, Pennsylvania, Authority for IDR, Commerci 7.75% due 12/01/2017
Rhode Island - 1.0%	1,750	Central Falls, Rhode Island, Detention Facility Corpor Facility, Revenue Refunding Bonds, 7.25% due 7/15/2035
South Carolina - 3.8%	1,100	Connector 2000 Association, Inc., South Carolina, Toll Appreciation Revenue Bonds, Senior-Series B, 6.50% due
	1,075	Connector 2000 Association, Inc., South Carolina, Toll Appreciation Revenue Bonds, Senior-Series B, 7.969% due

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State	Face Amount	
	\$ 5,715	South Carolina Housing Finance and Development Authorit Refunding Bonds, AMT, Series A-2, 5.15% due 7/01/2037 (
Tennessee - 3.1%	5 , 000	Hospital Facilities Revenue Refunding Bonds (Covenant H
	245	
	1,800	
	2,980	Revenue Bonds (Germantown Village), Series A, 7.25% due Sullivan County, Tennessee, Health, Educational & Housi Hospital Revenue Bonds (Wellmont Health System Project) due 9/01/2036
Texas - 5.6%	1,000	Austin, Texas, Convention Center Revenue Bonds (Convent Inc.), First Tier, Series A, 6.70% due 1/01/2011 (a)
	2,530	
	1,220	Brazos River Authority, Texas, Revenue Refunding Bonds Project), Series B, 7.75% due 12/01/2018
	1,000	Houston, Texas, Health Facilities Development Corporati Facility Revenue Bonds (Buckingham Senior Living Commun 7.125% due 2/15/2014 (a)
	875	Kerrville, Texas, Health Facilities Development Corpora Revenue Bonds (Sid Peterson Memorial Hospital Project),
	2,310	Matagorda County, Texas, Navigation District Number 1, Bonds (Reliant Energy Inc.), Series C, 8% due 5/01/2029
	1,330	Port Corpus Christi, Texas, Individual Development Corp Environmental Facilities Revenue Bonds (Citgo Petroleum Project), AMT, 8.25% due 11/01/2031
Utah - 1.2%	2,240	Carbon County, Utah, Solid Waste Disposal, Revenue Refu Environmental), AMT, Series A, 7.45% due 7/01/2017
Virginia - 2.4%	2 , 450	Dulles Town Center, Virginia, Community Development Aut Assessment Tax (Dulles Town Center Project), 6.25% due
	310	
	595	
	1,500	
Washington - 0.6%	1,200	
West Virginia - 0.6%	1,125	
Wisconsin - 0.7%	1,320	

(New Castle Place Project), Series A, 7% due 12/01/2031

BlackRock Apex Municipal Fund, Inc. Schedule of Investments as of September 30, 2007 (Unaudited) (in Thousands)

State	Face Amount	Municipal Bonds
U.S. Virgin Islands - 1.2%	\$2,100	Virgin Islands Government Refinery Facilities, Revenue (Hovensa Coker Project), AMT, 6.50% due 7/01/2021
		Total Municipal Bonds (Cost - \$181,883) - 97.4%
		Municipal Bonds Held in Trust (h)
		San Jose, California, Airport Revenue Refunding Bonds, due 3/01/2032 (b)
		Total Municipal Bonds Held in Trust (Cost - \$3,054) - 1
	Shares Held	Short-Term Securities
	800	Merrill Lynch Institutional Tax-Exempt Fund, 3.67% (f)(
		Total Short-Term Securities (Cost - \$800) - 0.4%
		Total Investments (Cost - \$185,737*) - 99.4%
		Other Assets Less Liabilities - 1.4%
		Liability for Trust Certificates, Including Interest Ex

The cost and unrealized appreciation (depreciation) of investments, as of September 30, 2007, as computed for federal income tax purposes, were as follows:

Aggregate cost	\$ 184,369	
	===	======
Gross unrealized appreciation	\$	9,909
Gross unrealized depreciation		(3 , 163)
Net unrealized appreciation	\$	6,746
	=======	

- (a) Prerefunded.(b) AMBAC Insured.

- (c) Represents a zero coupon bond; the interest rate shown reflects the effective yield at the time of purchase.
- (d) Security may have a maturity of more than one year at time of issuance, but has variable rate and demand features that qualify it as a short-term security. The rate disclosed is that currently in effect. This rate changes periodically based upon prevailing market rates.
- (e) The rate disclosed is that currently in effect. This rate changes periodically and inversely based upon prevailing market rates.
- (f) Represents the current yield as of September 30, 2007.
- (g) 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 Dividend Income

Merrill Lynch Institutional Tax-Exempt Fund 800 \$8

- (h) Securities represent underlying bonds transferred to a separate securitization trust established in a tender option bond transaction in which the Fund may have acquired the residual interest certificates. These securities serve as collateral in a financing transaction.
- (i) Non-income producing security; issuer filed for bankruptcy or is in default of interest payments.

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 and 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/ Donald C. Burke
----Donald C. Burke,
Chief Executive Officer of
BlackRock Apex Municipal Fund, Inc.

Date: November 20, 2007

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/ Donald C. Burke
----Donald C. Burke,
Chief Executive Officer (principal executive officer) of
BlackRock Apex Municipal Fund, Inc.

Date: November 20, 2007

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

Date: November 20, 2007