

MORGAN STANLEY MUNICIPAL INCOME OPPORTUNITIES TRUST

Form N-Q

April 29, 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: 811-05597

Morgan Stanley Municipal Income Opportunities Trust

(Exact name of registrant as specified in charter)

522 Fifth Avenue, New York, New York
(Address of principal executive offices)

10036
(Zip code)

Randy Takian

522 Fifth Avenue, New York, New York 10036
(Name and address of agent for service)

Registrant's telephone number, including area code: 212-296-6963

Date of fiscal year end: May 31, 2010

Date of reporting period: February 28, 2010

Item 1. Schedule of Investments.

The Fund's schedule of investments as of the close of the reporting period prepared pursuant to Rule 12-12 of Regulation S-X is as follows:

Morgan Stanley Municipal Income Opportunities Trust*
Portfolio of Investments n February 28, 2010 (unaudited)

PRINCIPAL AMOUNT IN THOUSANDS		COUPON RATE	MATURITY DATE	VALUE
	Tax-Exempt Municipal Bonds (103.1%)			
	<i>Alabama (0.7%)</i>			
\$ 1,000	Colbert County-Northwest Alabama Health Care Authority, Helen Keller Hospital Ser 2003	5.75%	06/01/27	\$ 945,520
	<i>Arizona (3.0%)</i>			
1,550	Navajo County Pollution Control Corp., Ser B	5.50	06/01/34	1,638,784
1,225	Pima County Industrial Development Authority, Constellation Schools Ser 2008	7.00	01/01/38	1,093,888
800	Pima County Industrial Development Authority, Water & Wastewater Global Water Resources LLC Ser 2007 (AMT)	6.55	12/01/37	782,784
400	Pinal County Electrical District No. 4, Electric System Ser 2008	6.00	12/01/38	400,224
				3,915,680
	<i>California (4.7%)</i>			
1,760	California County Tobacco Securitization Agency, Gold County Settlement Funding Corp. Ser 2006 (a)	0.00	06/01/33	220,053
335	California Municipal Finance Authority Educational Facility, High Tech High-Media Arts Ser 2008 A (b)	5.875	07/01/28	295,731
1,000	California Statewide Communities Development Authority, California Baptist University, Ser 2007 A	5.50	11/01/38	810,170
400	California Statewide Communities Development Authority, Thomas Jefferson School of Law Ser 2008 A	7.25	10/01/38	410,360
400	County of Sacramento, Community Facilities District No. 5 Ser 2007 A	6.00	09/01/37	319,684
990	Daly City Housing Development Finance Agency, Franciscan Mobile Home Park Third Tier Refg Ser 2007 C	6.50	12/15/47	841,282
3,000	Golden State Tobacco Securitization Corp., Enhanced Asset Backed Ser 2007 A-1	5.125	06/01/47	2,017,320
530	Quechan Indian Tribe of Fort Yuma, Indian Reservation Ser 2008	7.00	12/01/27	433,879
1,000	Santa Ana Unified School District, Unified School District Community Facilities, District No. 2004-1, California, Central Park Ser 2005	5.10	09/01/35	714,880
13,000	Silicon Valley Tobacco Securitization Authority, Santa Clara Tobacco Securitization Corp. Ser 2007 C	0.00	06/01/56	150,020

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(a)

6,213,379

Colorado (3.7%)

1,000	Colorado Health Facilities Authority, Christian Living Communities Ser 2006 A	5.75	01/01/37	851,610
500	Colorado Health Facilities Authority, Christian Living Communities Ser 2009 A	9.00	01/01/34	540,305
270	Colorado Housing & Finance Authority, 1998 Ser D-2 (AMT)	6.35	11/01/29	281,175
1,000	Copperleaf Metropolitan District No. 2, Ser 2006	5.95	12/01/36	672,660
2,000	Elk Valley Public Improvement Corporation Ser 2001 A	7.35	09/01/31	1,848,140
800	Northwest Metropolitan District No. 3, Ser 2005	6.25	12/01/35	610,896

4,804,786

Connecticut (0.8%)

1,970	Standard Life Legend Canadian Equity Pool, Ser 2006 A	5.125	10/01/36	1,006,552
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District of Columbia (0.6%)

540	District of Columbia, Income Tax Secured Revenue Refg Ser 2009 B (c)	5.00	12/01/25	603,445
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Morgan Stanley Municipal Income Opportunities Trust*
Portfolio of Investments n February 28, 2010 (unaudited) continued

PRINCIPAL AMOUNT IN THOUSANDS		COUPON RATE	MATURITY DATE	VALUE
\$ 180	Metropolitan Washington Airports Authority, District of Columbia & Virginia, CaterAir International Corp. Ser 1991 (AMT) (d)	10.125%	09/01/11	\$ 178,151
				781,596
	<i>Florida (16.1%)</i>			
1,845	Beacon Lakes, Community Development District, Ser 2003 A	6.90	05/01/35	1,791,237
935	Bellalago Educational Facilities Benefits District, Bellalago Charter School Ser 2004 B	5.80	05/01/34	740,436
640	Brevard County Health Facilities Authority, Buena Vida Estates, Inc. Ser 2007	6.75	01/01/37	569,696
2,960	Broward County Professional Sports Facilities, Civic Arena Refg Ser 2006 A (CR) (AGM & AMBAC Insd) (c)	5.00	09/01/23	3,123,097
800	County of Alachua Industrial Development, North Florida Retirement Village, Ser 2007	5.875	11/15/36	657,496
500	County of Alachua Industrial Development, North Florida Retirement Village, Ser 2007	5.25	11/15/17	478,690
1,930	County of Escambia, Pensacola Care Development Centers Ser 1989 (e)	10.25	07/01/11	1,947,389
450	County of Escambia, Pensacola Care Development Centers Ser 1989 A (e)	10.25	07/01/11	454,055
980	Fiddlers Creek Community Development District No. 1 Ser 2005 (f)	6.00	05/01/38	492,489
500	Fountainbleau Lakes Community Development District Ser 2007 B	6.00	05/01/15	272,740
750	Grand Bay at Doral Community Development District Ser 2007 A	6.00	05/01/39	385,680
1,000	Lee County Industrial Development Authority, Ser 2007 A	5.375	06/15/37	755,430
490	Miami Beach Health Facilities Authority, Mount Sinai Medical Center Refg Ser 2004	6.75	11/15/21	494,058
1,000	Midtown Miami Community Development District, Parking Garage Ser 2004 A	6.25	05/01/37	876,520
500	Orange County Health Facilities Authority, Orlando Lutheran Towers, Inc. Ser 2005	5.70	07/01/26	427,700
2,000	Orange County Health Facilities Authority, Orlando Lutheran Towers, Inc. Ser 2007	5.50	07/01/32	1,585,680
1,000		6.75	04/01/34	958,120

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	Orange County Health Facilities Authority, Westminster Community Care Services, Inc. Ser 1999			
600	Pinellas County Health Facilities Authority, Oaks of Clearwater Ser 2004	6.25	06/01/34	606,528
950	Renaissance Commons Community Development District, 2005 Ser A	5.60	05/01/36	724,907
2,860	South Miami Health Facilities Authority, Baptist Health South Florida Obligated Group Ser 2007 (c)	5.00	08/15/32	2,875,901
500	Split Pine Community Development District, Ser 2007 A	5.25	05/01/39	318,180
600	Tolomato Community Development District, Special Assessment Ser 2007	6.55	05/01/27	525,486
				21,061,515
	<i>Georgia (1.2%)</i>			
400	City of Atlanta, Beltline Ser 2009 B	7.375	01/01/31	404,468
1,000	City of Atlanta, Eastside Ser 2005 B	5.60	01/01/30	917,010
300	Clayton County Development Authority, Ser 2009 B (AMT)	9.00	06/01/35	304,371
				1,625,849
	<i>Hawaii (2.2%)</i>			
1,220	Hawaii State, Ser 2008 DK (c)	5.00	05/01/23	1,362,035

Morgan Stanley Municipal Income Opportunities Trust*
Portfolio of Investments n February 28, 2010 (unaudited) continued

PRINCIPAL AMOUNT IN THOUSANDS			COUPON RATE	MATURITY DATE	VALUE
\$ 400	Hawaii State Department of Budget & Finance, 15 Craigside Project Ser 2009 A		8.75%	11/15/29	\$ 438,920
1,000	Hawaii State Department of Budget & Finance, Kahala Nui Ser 2003 A		8.00	11/15/33	1,068,570
					2,869,525
	<i>Idaho (0.6%)</i>				
945	Idaho Health Facilities Authority, Valley Vista Care Corp Refg Ser 2007 (e)		6.125	11/15/27	827,149
	<i>Illinois (8.0%)</i>				
750	Bolingbrook, Will & Dupage Counties Special Service Area No. 2005-1 Ser 2005		5.90	03/01/27	595,537
2,000	City of Chicago, Lake Shore East Ser 2002		6.75	12/01/32	1,889,040
1,000	City of United City of Yorkville, Cannonball/Beecher Road Ser 2007		5.75	03/01/28	885,250
500	Hampshire Special Service Area No. 18 Ser 2007 A		6.00	03/01/44	382,275
800	Illinois Finance Authority, Elmhurst Memorial Healthcare Ser 2008 A		5.625	01/01/37	734,288
1,000	Illinois Finance Authority, Landing at Plymouth Place Ser 2005 A		6.00	05/15/37	808,270
1,000	Illinois Finance Authority, Luther Oaks Ser 2006 A		6.00	08/15/39	817,790
1,650	Illinois Finance Authority, Montgomery Place Ser 2006 A		5.75	05/15/38	1,357,554
1,200	Illinois State Toll Highway Authority, Ser 2008 B (c)		5.50	01/01/33	1,287,548
725	Lincolnshire Special Service Area No. 1, Sedgebrook Ser 2004		6.25	03/01/34	585,938
1,000	Village of Bolingbrook, Sales Tax Ser 2005		6.25	01/01/24	552,740
650	Will-Kankakee Regional Development Authority, Senior Estates Supportive Living Ser 2007 (AMT)		7.00	12/01/42	565,520
					10,461,750
	<i>Indiana (0.5%)</i>				
400	City of Crown Point, Wittenberg Village Ser 2009 A		8.00	11/15/39	396,784
285	County of St. Joseph, Holy Cross Village at Notre Dame Ser 2006 A		6.00	05/15/26	266,749
					663,533

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	<i>Iowa (1.5%)</i>			
1,000	Iowa Finance Authority, Bethany Life Communities Refg Ser 2006 A	5.55	11/01/41	782,870
750	Iowa Finance Authority, Madrid Homes Ser 2007	5.90	11/15/37	606,270
785	Jefferson County Iowa Hospital Revenue, Jefferson County Hospital Project Ser C	5.95	08/01/37	644,242
				2,033,382
	<i>Kansas (0.6%)</i>			
900	City of Olathe, Catholic Care Ser 2006 A	6.00	11/15/38	758,169
	<i>Louisiana (1.3%)</i>			
794	Lakeshore Villages Master Community Development District, Special Assessment Ser 2007	5.25	07/01/17	663,204
600	Louisiana Public Facilities Authority, Lake Charles Memorial Hospital Refg Ser 2007 (b)	6.375	12/01/34	522,456
500	Parish of St John Baptist, Marathon Oil Corp. Ser 2007 A	5.125	06/01/37	469,475
				1,655,135
	<i>Maryland (1.6%)</i>			
1,000	Maryland Economic Development Corp., Chesapeake Bay Conference Center Ser 2006 A	5.00	12/01/31	724,500

Morgan Stanley Municipal Income Opportunities Trust*
Portfolio of Investments n February 28, 2010 (unaudited) continued

PRINCIPAL AMOUNT IN THOUSANDS		COUPON RATE	MATURITY DATE	VALUE
\$ 750	Maryland Health & Higher Educational Facilities Authority, King Farm Presbyterian Community Ser 2007 A	5.30%	01/01/37	\$ 531,255
800	Maryland Health & Higher Educational Facilities Authority, Washington Christian Academy Ser 2006	5.50	07/01/38	384,008
500	Maryland Industrial Development Financing Authority, Our Lady of Good Counsel High School Ser 2005 A	6.00	05/01/35	467,410
				2,107,173
	<i>Massachusetts (3.0%)</i>			
425	Massachusetts Development Finance Agency, Linden Ponds, Inc. Facility Ser 2007 A	5.75	11/15/42	302,774
1,500	Massachusetts Development Finance Agency, Loomis Communities Ser 1999 A	5.75	07/01/23	1,422,240
1,455	Massachusetts Development Finance Agency, New England Center for Children Ser 1998	5.875	11/01/18	1,376,968
400	Massachusetts Development Finance Agency, The Groves in Lincoln Facility Ser 2009 B-2	7.75	06/01/39	400,056
390	Massachusetts Health & Educational Facilities Authority, Massachusetts Institute of Technology Ser 2002 K (c)	5.50	07/01/32	471,969
				3,974,007
	<i>Michigan (1.9%)</i>			
500	Dearborn Economic Development Corp., Henry Ford Village, Inc. Refg Ser 2008	7.00	11/15/28	464,580
400	Michigan Strategic Fund, Limited Obligation Revenue Ser 2003 A-1 (AMT)	6.75	12/01/28	447,884
2,000	Michigan Tobacco Settlement Finance Authority Ser 2007 A	6.00	06/01/48	1,585,480
				2,497,944
	<i>Minnesota (1.4%)</i>			
450	City of Brooklyn Park, Prairie Seeds Academy Ser 2009 A	9.25	03/01/39	490,248
600		6.75	11/15/32	669,372

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	City of Minneapolis Health Care System, Fairview Health Services Ser 2008 A			
750	City of North Oaks, Presbyterian Homes of North Oaks Ser 2007	6.125	10/01/39	742,365
				1,901,985
	<i>Mississippi (0.3%)</i>			
400	Mississippi Business Finance Corp., System Energy Resources, Inc. Ser 1998	5.875	04/01/22	399,960
	<i>Missouri (6.4%)</i>			
750	Branson Hills Infrastructure Facilities Community Improvement District, Ser 2007 A	5.50	04/01/27	641,460
500	Branson Regional Airport Transportation Development District Ser 2007 B (AMT)	6.00	07/01/37	327,195
2,000	City of Des Peres, West County Center Ser 2002	5.75	04/15/20	1,881,240
3,850	City of Fenton, Gravois Bluffs Redevelopment Ser 2001 A	7.00	10/01/11(g)	4,257,214
400	Kirkwood Industrial Development Authority, Aberdeen Heights Ser 2010 A	8.25	05/15/39	398,168
250	St Louis County Industrial Development Authority, Ranken-Jordan Refg Ser 2007	5.00	11/15/22	227,125
750	St Louis County Industrial Development Authority, St Andrews Resources for Seniors Ser 2007 A	6.375	12/01/41	634,620
				8,367,022
	<i>Nevada (1.7%)</i>			
450	City of Henderson, Local Improvement District No. T-18 Ser 2006	5.30	09/01/35	179,104

Morgan Stanley Municipal Income Opportunities Trust*
Portfolio of Investments n February 28, 2010 (unaudited) continued

PRINCIPAL AMOUNT IN THOUSANDS		COUPON RATE	MATURITY DATE	VALUE
\$ 600	City of Sparks, Local Improvement District No. 3 Ser 2008	6.50%	09/01/20	\$ 586,188
1,000	Director of the State of Nevada, Department of Business & Industry, Las Vegas Monorail 2nd Tier Ser 2000 (h)	7.375	01/01/40	40,000
500	Las Vegas Redevelopment Agency, Tax Increment Ser 2009 A	8.00	06/15/30	562,835
1,015	Mesquite Special Improvement District No. 07-01, Local Improvement- Anthem at Mesquite Ser 2007	6.00	08/01/23	839,466
				2,207,593
	<i>New Hampshire (2.1%)</i>			
400	New Hampshire Business Finance Authority, Huggins Hopsital Ser 2009	6.875	10/01/39	400,796
3,785	New Hampshire Housing Finance Authority, Single Family Residential 1983 Ser B (a)	0.00	01/01/15	2,297,381
				2,698,177
	<i>New Jersey (5.2%)</i>			
400	New Jersey Economic Development Authority, Continental Airlines, Inc. Ser 1999 (AMT)	6.25	09/15/19	376,156
1,000	New Jersey Economic Development Authority, Franciscan Oaks Ser 1997	5.70	10/01/17	999,910
730	New Jersey Economic Development Authority, Lions Gate Ser 2005 A	5.875	01/01/37	606,725
700	New Jersey Economic Development Authority, Seashore Gardens Living Center Ser 2006	5.375	11/01/36	533,169
1,000	New Jersey Economic Development Authority, The Presbyterian Home at Montgomery Ser 2001 A	6.375	11/01/31	884,830
2,000	New Jersey Economic Development Authority, United Methodist Homes of New Jersey Ser 1998	5.125	07/01/25	1,710,600
2,000	New Jersey Health Care Facilities Financing Authority, Raritan Bay Medical Center Ser 1994 (e)	7.25	07/01/27	1,465,040