

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
275	Tobacco Settlement Financing Corp., Ser 2007-1 A	4.625	06/01/26	228,030
				6,804,460
	<i>New York (5.3%)</i>			
3,000		6.375	12/01/37	2,524,350

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	Brookhaven Industrial Development Agency, Woodcrest Estates Ser 1998 A (AMT)			
4,000	Brooklyn Arena Local Development Corp., Barclays Center Ser 2009 (a)	0.00	07/15/46	320,360
625	Nassau County Industrial Development Agency, Continuing Care Retirement Community Revenue, Amsterdam at Harborside Project Ser 2007 A	6.50	01/01/27	602,056
1,500	New York City Industrial Development Agency, 7 World Trade Center LLC Ser 2005 A	6.50	03/01/35	1,505,985
500	New York City Industrial Development Agency, Polytechnic University Refg Ser 2007 (ACA Insd)	5.25	11/01/37	435,105
1,000	New York Liberty Development Corp., National Sports Museum, Ser 2006 A (h)	6.125	02/15/19	10
400	Seneca County Industrial Development Agency, Seneca Meadows, Inc. Ser 2008 (AMT) (b)	6.625	10/01/35	400,952
1,470	Suffolk County Industrial Development Agency, Medford Hamlet Ser 2006 (AMT)	6.375	01/01/39	1,161,506
				6,950,324
	<i>North Carolina (0.2%)</i>			
400	North Carolina Medical Care Commission Health Care Facilities, Pennybyrn at Maryfield Ser 2005 A	6.125	10/01/35	302,864

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

PRINCIPAL AMOUNT IN THOUSANDS		COUPON RATE	MATURITY DATE	VALUE
	<i>North Dakota (0.9%)</i>			
\$ 1,500	City of Grand Forks, Valley Square Ser 2006	5.30%	12/01/34	\$ 1,150,095
	<i>Ohio (2.8%)</i>			
1,900	Buckeye Tobacco Settlement Financing Authority, Asset-Backed Ser 2007 A-2	5.875	06/01/30	1,619,161
600	City of Centerville Health Care, Bethany Lutheran Village Ser 2007 A	6.00	11/01/38	517,584
850	County of Cuyahoga Health Care & Independent Living Facilities, Eliza Jennings Senior Care Ser 2007 A	5.75	05/15/27	726,742
450	County of Tuscarawas Hospital Facilities, The Twin City Hospital Ser 2007	6.35	11/01/37	405,306
400	Ohio Air Quality Development Authority, Pollution Control-Firstenergy Ser 2009	5.625	06/01/18	427,720
				3,696,513
	<i>Oklahoma (0.9%)</i>			
650	Chickasawa Nation Health Systems Ser 2007 (b)	6.25	12/01/32	652,093
500	Citizen Potawatomi Nation Senior Tax Revenue, Ser 2004 A	6.50	09/01/16	488,975
				1,141,068
	<i>Pennsylvania (6.1%)</i>			
1,800	Allegheny County Hospital Development Authority, West Penn Allegheny Health Ser 2007 A	5.375	11/15/40	1,360,062
1,500	Bucks County Industrial Development Authority, Ann s Choice Ser 2005 A	6.125	01/01/25	1,419,495
1,000	Chester County Health & Education Facilities Authority, Jenner s Pond Inc. Ser 2002	7.625	07/01/12(g)	1,166,920
750	Harrisburg Authority, Harrisburg University of Science & Technology Ser 2007 B	6.00	09/01/36	691,365
1,000	Montgomery County Industrial Development Authority, Whitemarsh Community Ser 2005	6.25	02/01/35	740,840
400	Pennsylvania Economic Development Financing Authority, Reliant Energy, Inc. Ser 2001 A (AMT)	6.75	12/01/36	400,384
1,230	Pennsylvania Intergovernmental Cooperative Authority, Philadelphia Funding Project Ser 2009 (c)	5.00	06/15/21	1,366,075

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995	Washington County Redevelopment Authority, Victory Centre/Tanger Outlet Redevelopment Authority Ser 2006 A	5.45	07/01/35	828,427
				7,973,568
	<i>South Carolina (1.6%)</i>			
1,250	City of Myrtle Beach, Myrtle Beach Air Force Base Ser 2006 A	5.30	10/01/35	816,612
300	County of Georgetown, Environment Improvement Revenue, International Paper Co. Ser 2000 A	5.95	03/15/14	321,912
750	South Carolina Jobs-Economic Development Authority, Wesley Commons Ser 2006	5.30	10/01/36	563,603
625	South Carolina Jobs-Economic Development Authority, Woodlands at Furman Ser 2007 A	6.00	11/15/37	449,738
				2,151,865
	<i>Tennessee (2.1%)</i>			
800	Johnson City Health & Educational Facilities Board, Mountain States Health Alliance Ser 2006 A	5.50	07/01/31	801,632
500	Shelby County Health, Educational & Housing Facilities Board, Trezevant Manor Ser 2006 A	5.75	09/01/37	434,495
750	Shelby County Health, Educational & Housing Facilities Board, Village at Germantown Ser 2003 A	7.25	12/01/34	713,183
475	Shelby County Health, Educational & Housing Facilities Board, Village at Germantown Ser 2006	6.25	12/01/34	404,092

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	Trenton Health & Educational Facilities Board, Ser 2009	9.25%	04/01/39	\$ 414,116
				2,767,518
	<i>Texas (8.6%)</i>			
500	Alliance Airport Authority, Federal Express Corp. Refg Ser 2006 (AMT)	4.85	04/01/21	496,335
2,000	Austin Convention Enterprises, Inc., Convention Center Hotel Ser 2006 B (b)	5.75	01/01/34	1,595,120
400	Brazos River Harbor Navigation District, The Dow Chemical Project Ser 2002A-4 (AMT)	5.95	05/15/33	400,868
1,000	Decatur Hospital Authority, Wise Regional Health Ser 2004 A	7.125	09/01/34	995,170
1,250	HFDC of Central Texas, Inc., Legacy at Willow Bend, Ser 2006 A	5.75	11/01/36	992,737
400	HFDC of Central Texas, Inc., Ser 2009 A	7.75	11/15/44	399,688
425	Houston Airport System Special Facilities, Continental Airlines, Inc. Ser 2001 E (AMT)	6.75	07/01/21	408,701
425	Houston Airport System Special Facilities, Continental Airlines, Inc. Ser 2001 E (AMT)	6.75	07/01/29	403,746
1,000	Lubbock Health Facilities Development Corp., Carillon Ser 2005 A	6.50	07/01/26	911,810
400	Tarrant County Cultural Education Facilities Finance Corp., Mirador Ser 2010 A	8.125	11/15/39	394,536
450	Tarrant County Cultural Education Facilities Finance Corp., Northwest Senior Housing Corp.- Edgemere Ser 2006 A	6.00	11/15/36	400,329
2,975	Texas Department of Housing & Community Affairs, Ser 2007 B (AMT) (c)	5.15	09/01/27	3,052,620
400	Texas Private Activity Bond Surface Transportation Corp., Senior Lien Ser 2009	6.875	12/31/39	415,748
400	Travis County Health Facilities Development Corp., Westminster Manor Ser 2010	7.00	11/01/30	402,032
				11,269,440
	<i>Utah (0.8%)</i>			
1,000	County of Emery Environmental Improvement, Pacificorp Ser 1996 (AMT)	6.15	09/01/30	997,220

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	<i>Virginia (1.8%)</i>			
2,000	Peninsula Ports Authority of Virginia, Baptist Homes Ser 2006 C	5.40	12/01/33	1,222,720
700	Peninsula Town Center Community Development Authority Ser 2007	6.45	09/01/37	668,850
500	Virginia Small Business Financing Authority, Hampton Ser 2009	9.00	07/01/39	521,145
				2,412,715
	<i>Washington (1.8%)</i>			
400	King County Public Hospital District No. 4, Snoqualime Valley Hospital Ser 2009	7.25	12/01/38	414,212
650	Port of Seattle Industrial Development Corp., Northwest Airlines, Inc. Ser 2001 (AMT)	7.25	04/01/30	651,105
500	Washington Health Care Facilities Authority, Seattle Cancer Care Alliance Ser 2008	7.375	03/01/38	554,300
1,000	Washington Housing Finance Commission, Skyline at First Hill Ser 2007 A	5.625	01/01/38	717,270
				2,336,887
	<i>West Virginia (0.6%)</i>			
825	West Virginia Hospital Finance Authority, Thomas Health System, Inc. Ser 2008	6.50	10/01/38	770,393
	<i>Wisconsin (0.5%)</i>			
600	Wisconsin Health & Educational Facilities Authority, ProHealth Care, Inc. Ser 2009	6.375	02/15/29	651,360
	Total Tax-Exempt Municipal Bonds (Cost \$150,274,113)			135,153,671

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

PRINCIPAL AMOUNT IN THOUSANDS		COUPON RATE	MATURITY DATE	VALUE
	Short-Term Tax-Exempt Municipal Obligations (0.7%)			
	<i>Colorado (0.5%)</i>			
\$ 600	Colorado Educational & Cultural Facilities Authority (Demand 03/01/10)	0.17%(i)	02/01/34	\$ 600,000
	<i>Illinois (0.2%)</i>			
300	Illinois Finance Authority (Demand 03/01/10)	0.14(i)	01/01/48	300,000
	Total Short-Term Tax-Exempt Municipal Obligations			
	<i>(Cost \$900,000)</i>			900,000
	Total Investments <i>(Cost \$151,174,113) (j)(k)</i>		103.8%	136,053,671
	Other Assets in Excess of Liabilities		1.8	2,251,236
	Floating Rate Note and Dealer Trusts Obligations Related to Securities Held			
	Notes with interest rates ranging from 0.18% to 0.25% at 02/28/10 and contractual maturities of collateral ranging from 06/15/21 to 01/01/33 (l)		(5.6)	(7,289,000)
	Net Assets		100.0%	\$ 131,015,907

AMT *Alternative
Minimum Tax.*

CR *Custodial
Receipts.*

(a) *Capital
appreciation
bond.*

(b) *Resale is
restricted to
qualified
institutional
investors.*

(c)

*Underlying
security related
to inverse
floater entered
into by the
Fund.*

- (d) *Joint exemption.*
- (e) *Illiquid security.*
- (f) *Illiquid security.
Resale is
restricted to
qualified
institutional
investors.*
- (g) *Prefunded to
call date shown.*
- (h) *Illiquid security.
Security in
default.*
- (i) *Current coupon
of variable rate
demand
obligation.*
- (j) *Securities have
been designated
as collateral in
connection with
inverse floating
rate municipal
obligations.*
- (k) *The aggregate
cost for federal
income tax
purposes
approximates
the aggregate
cost for book
purposes.*
- (l) *Floating rate
note obligations
related to
securities held*

The Fund enters into transactions in which it transfers to Dealer Trusts (Dealer Trusts), fixed rate bonds in exchange for cash and residual interests in the Dealer Trusts assets and cash flows, which are in the form of inverse floating rate investments. The Dealer Trusts fund the purchases of the fixed rate bonds by issuing floating rate notes to third parties and allowing the Fund to retain residual interest in the bonds. The Fund enters into shortfall agreements with the Dealer Trusts which commit the Fund to pay the Dealer Trusts, in certain circumstances, the difference between the liquidation value of the fixed rate bonds held by the Dealer Trusts and the liquidation value of the

floating rate notes held by third parties, as well as any shortfalls in interest cash flows. The residual interests held by the Fund (inverse floating rate investments) include the right of the Fund (1) to cause the holders of the floating rate notes to tender their notes at par at the next interest rate reset date, and (2) to transfer the municipal bond from the Dealer Trusts to the Fund, thereby collapsing the Dealer Trusts. The Fund accounts for the transfer of bonds to the Dealer Trusts as secured borrowings, with the securities transferred remaining in the Fund's investment assets, and the related floating rate notes reflected as Fund liabilities. The notes issued by the Dealer

Trusts have interest rates that reset weekly and the floating rate note holders have the option to tender their notes to the Dealer Trusts for redemption at par at each reset date. At February 28, 2010, Fund investments with a value of \$14,142,690 are held by the Dealer Trusts and serve as collateral for the \$7,289,000 in floating rate note obligations outstanding at that date.

Bond Insurance:

ACA ACA Financial Guaranty Corporation.

AGM Assured Guaranty Municipal Corporation.

AMBAC AMBAC Assurance Corporation.

Morgan Stanley Municipal Income Opportunities Trust*

Notes to the Portfolio of Investments n February 28, 2010 (unaudited)

Fair Valuation Measurements

Fair value is defined as the price that the Fund would receive to sell an investment or pay to transfer a liability in a timely transaction with an independent buyer in the principal market, or in the absence of a principal market the most advantageous market for the investment or liability. GAAP utilizes a three-tier hierarchy to distinguish between (1) inputs that reflect the assumptions market participants would use in pricing an asset or liability developed based on market data obtained from sources independent of the reporting entity (observable inputs) and (2) inputs that reflect the reporting entity's own assumptions about the assumptions market participants would use in pricing an asset or liability developed based on the best information available in the circumstances (unobservable inputs) and to establish classification of fair value measurements for disclosure purposes. Various inputs are used in determining the value of the Fund's investments. The inputs are summarized in the three broad levels listed below.

Level 1 unadjusted quoted prices in active markets for identical investments

Level 2 other significant observable inputs (including quoted prices for similar investments, interest rates, prepayment speeds, credit risk, etc.)

Level 3 significant unobservable inputs (including the Fund's own assumptions in determining the fair value of investments)

The inputs or methodology used for valuing securities are not necessarily an indication of the risk associated with investing in those securities and the determination of the significance of a particular input to the fair value measurement in its entirety requires judgment and considers factors specific to each security.

The following is the summary of the inputs used as of February 28, 2010 in valuing the Fund's investments carried at fair value:

**FAIR VALUE MEASUREMENTS AT FEBRUARY 28, 2010
USING**

INVESTMENT TYPE	TOTAL	UNADJUSTED QUOTED PRICES IN ACTIVE MARKET FOR IDENTICAL INVESTMENTS			OTHER	
		(LEVEL 1)	(LEVEL 2)	(LEVEL 3)	SIGNIFICANT OBSERVABLE INPUTS	SIGNIFICANT UNOBSERVABLE INPUTS
Tax-Exempt Municipal Bonds	\$ 135,153,671		\$ 135,153,671			
Short-Term Tax-Exempt Municipal Obligations	900,000		900,000			
Total	\$ 136,053,671		\$ 136,053,671			

Valuation of Investments (1) portfolio securities are valued by an outside independent pricing service approved by the Trustees. The pricing service uses both a computerized grid matrix of tax-exempt securities and evaluations by its staff, in each case based on information concerning market transactions and quotations from dealers which reflect the mean between the last reported bid and ask price. The portfolio securities are thus valued by reference to a combination of transactions and quotations for the same or other securities believed to be comparable in quality, coupon, maturity, type of issue, call provisions, trading characteristics and other features deemed to be relevant. The

Trustees believe that timely and reliable market quotations are generally not readily available for purposes of valuing tax-exempt securities and that the valuations supplied by the pricing service are more likely to represent the fair value of such securities; (2) futures are valued at the latest sale price on the commodities exchange on which they trade unless it is determined that such price does not reflect their market value, in which case they will be valued at their fair value as determined in good faith under procedures established by and under the supervision of the Trustees; (3) interest rate swaps are marked-to-market daily based upon quotations from market makers; (4) investments in open-end mutual funds, including the Morgan Stanley Institutional

Liquidity Funds, are valued at the net asset value as of the close of each business day; and (5) short-term debt securities having a maturity date of more than sixty days at time of purchase are valued on a mark-to-market basis until sixty days prior to maturity and thereafter at amortized cost based on their value on the 61st day. Short-term debt securities having a maturity date of sixty days or less at the time of purchase are valued at amortized cost, which approximates market value.

* On October 19, 2009, Morgan Stanley announced that it has entered into a definitive agreement to sell substantially all of its retail asset management business to Invesco Ltd., a leading global investment management company. Subsequently, the Fund's Board of Trustees approved recommending to the Fund's stockholders the approval of a new Board for the Fund and a new investment advisory agreement with Invesco Advisers, Inc. and a master sub-advisory agreement with various affiliates of Invesco Advisers Inc. for the Fund in connection with a Special Meeting of Stockholders of

the Fund
anticipated to be
held during the
second quarter
of 2010.

Item 2. Controls and Procedures.

(a) The Fund's principal executive officer and principal financial officer have concluded that the Fund's disclosure controls and procedures are sufficient to ensure that information required to be disclosed by the Fund in this Form N-Q was recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms, based upon such officers' evaluation of these controls and procedures as of a date within 90 days of the filing date of the report.

(b) There were no changes in the Fund's internal control over financial reporting that occurred during the registrant's fiscal quarter that has materially affected, or is reasonably likely to materially affect, the Fund's internal control over financial reporting.

Item 3. Exhibits.

(a) A separate certification for each principal executive officer and principal financial officer of the registrant are attached hereto.

SIGNATURES

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.
Morgan Stanley Municipal Income Opportunities Trust

/s/ Randy Takian
Randy Takian
Principal Executive Officer
April 15, 2010

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

/s/ Randy Takian
Randy Takian
Principal Executive Officer
April 15, 2010

/s/ Francis Smith
Francis Smith
Principal Financial Officer
April 15, 2010