MASSMUTUAL PARTICIPATION INVESTORS

Form N-Q May 28, 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 811-05531

MassMutual Participation Investors				
(Exact name of registrant as specified in charter)				
1500 Main Street, Springfield, MA 01115				
(Address of principal executive offices) (Zip code)				
Patricia J. Walsh, Vice President and Secretary, 1500 Main Street, Suite 2800, Springfield, MA 01115				
(Name and address of agent for service)				
Registrant's telephone number, including area code: 413-226-1000				
Date of fiscal year end: 12/31				
Date of reporting period: 03/31/10				

ITEM 1. SCHEDULE OF INVESTMENTS.

MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS March 31, 2010 (Unaudited)

CORPORATE RESTRICTED SECURITIES - 91.27%: (A)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date
CONTONALL RESTRICTED SECONTILES 91.270. (A)		
PRIVATE PLACEMENT INVESTMENTS - 87.51%		
A E COMPANY, INC.		
A designer and manufacturer of machined parts and assembly stru		ercial and mili
11% Senior Secured Note due 2015	\$ 807,692	*
13% Senior Subordinated Note due 2016 Common Stock (B)	\$ 807,693 184,615 shs.	11/10/09 11/10/09
Warrant, exercisable until 2019, to purchase	104,013 5115.	11/10/09
common stock at \$.01 per share (B)	92,308 shs.	11/10/09
• • • • • • • • • • • • • • • • • • • •	,	
* 11/10/09 and 11/18/09.		
A H C HOLDING COMPANY, INC.		
A designer and manufacturer of boilers and water heaters for th	ne commercial sector.	
15% Senior Subordinated Note due 2015	\$ 1,322,210	11/21/07
Limited Partnership Interest (B)	12.26% int.	11/21/07
A S A P INDUSTRIES LLC A designer and manufacturer of components used on oil and natur 12.5% Senior Subordinated Note due 2015 Limited Liability Company Unit Class A-2 (B) Limited Liability Company Unit Class A-3 (B)	fal gas wells. \$ 450,500 677 uts. 608 uts.	12/31/08 12/31/08 12/31/08
A S C GROUP, INC. A designer and manufacturer of high reliability encryption equi components primarily for the military and aerospace sectors.	pment, communication	as products, co
12.75% Senior Subordinated Note due 2016	\$ 1,227,273	10/09/09
Limited Liability Company Unit Class A (B)	1,249 uts.	10/09/09
Limited Liability Company Unit Class B (B)	1,473 uts.	10/09/09
A W X HOLDINGS CORPORATION A provider of aerial equipment rental, sales and repair service operating in the State of Indiana.	es to non-residential	construction
10.5% Senior Secured Term Note due 2014	\$ 420,000	05/15/08
13% Senior Subordinated Note due 2015	\$ 420,000	05/15/08
Common Stock (B)	60,000 shs.	05/15/08
Warrant, exercisable until 2015, to purchase	21 000 -h-	05/15/00
common stock at \$.01 per share (B)	21,099 shs.	05/15/08

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010 (Unaudited)

	Principal Amount Shares, Units	
	or Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Percentage	Date
ADVANCED TECHNOLOGIES HOLDINGS		
A provider of factory maintenance services to industrial compa		10/05/05
15% Senior Subordinated Note due 2013	\$ 1,155,508	12/27/07
Preferred Stock (B)	546 shs.	12/27/07
AERO HOLDINGS, INC.		
A provider of geospatial services to corporate and government		
10.5% Senior Secured Term Note due 2014	\$ 930,000	03/09/07
14% Senior Subordinated Note due 2015	\$ 720 , 000	03/09/07
Common Stock (B)	150,000 shs.	03/09/07
Warrant, exercisable until 2015, to purchase		
common stock at \$.01 per share (B)	37,780 shs.	03/09/07
ALL CURRENT HOLDING COMPANY A specialty re-seller of essential electrical parts and compon 12% Senior Subordinated Note due 2015 Common Stock (B) Warrant, exercisable until 2018, to purchase common stock at \$.01 per share (B)	ents primarily servi \$ 603,697 713 shs. 507 shs.	ng wholesale di 09/26/08 09/26/08 09/26/08
AMERICAN HOSPICE MANAGEMENT HOLDING LLC		
A for-profit hospice care provider in the United States.		
12% Senior Subordinated Note due 2013	\$ 1,687,503	*
Preferred Class A Unit (B)	1,706 uts.	**
Preferred Class B Unit (B)	808 uts.	06/09/08
Common Class B Unit (B)	16,100 uts.	01/22/04
Common Class D Unit (B)	3,690 uts.	09/12/06
* 01/22/04 and 06/09/08. ** 01/22/04 and 09/12/06.		
APEX ANALYTIX HOLDING CORPORATION		
A provider of audit recovery and fraud detection services and		
12.5% Senior Subordinated Note due 2016	\$ 1,012,500	04/28/09
Preferred Stock Series B (B) Common Stock (B)	1,623 shs. 723 shs.	04/28/09 04/28/09

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MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED)

March 31, 2010 (Unaudited)

	Principal Amount Shares, Units or Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Percentage	Date
ARROW TRU-LINE HOLDINGS, INC. A manufacturer of hardware for residential and commercial overlasses Senior Subordinated Note due 2012 Preferred Stock (B) Common Stock (B)		
Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)	69 shs.	05/18/05
BRAVO SPORTS HOLDING CORPORATION A designer and marketer of niche branded consumer products inclure than e wheels.	luding canopies, tram	npolines, in-li
12.5% Senior Subordinated Note due 2014	\$ 1,207,902	06/30/06
Preferred Stock Class A (B)	465 shs.	06/30/06
Common Stock (B)	1 sh.	06/30/06
Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	164 shs.	06/30/06
C D N T, INC. A value-added converter and distributor of specialty pressure s 10.5% Senior Secured Term Note due 2014 12.5% Senior Subordinated Note due 2015 Common Stock (B) Warrant, exercisable until 2018, to purchase common stock at \$.01 per share (B)	sensitive adhesives, \$ 429,070 \$ 429,070 41,860 shs. 32,914 shs.	08/07/08
CAPITAL SPECIALTY PLASTICS, INC. A producer of desiccant strips used for packaging pharmaceutical Common Stock (B) * 12/30/97 and 05/29/99.	al products. 55 shs.	*
CLOUGH, HARBOUR AND ASSOCIATES An engineering service firm that is located in Albany, NY. 12.25% Senior Subordinated Note due 2015 Preferred Stock (B)	\$ 1,270,588 147 shs.	12/02/08 12/02/08

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010

(Unaudited)

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date
COEUR, INC.		
A producer of proprietary, disposable power injection syringes. 12% Senior Subordinated Note due 2016 Common Stock (B)	\$ 642,857 321 shs.	10/10/08 10/10/08
Warrant, exercisable until 2018, to purchase common stock at \$.01 per share (B)	495 shs.	10/10/08
CONNECTICUT ELECTRIC, INC. A supplier and distributor of electrical products sold into the 12% Senior Subordinated Note due 2014 Limited Liability Company Unit Class A (B) Limited Liability Company Unit Class C (B)	e retail and wholesa \$ 1,267,387 82,613 uts. 59,756 uts.	le markets. 01/12/07 01/12/07 01/12/07
CONNOR SPORT COURT INTERNATIONAL, INC. A designer and manufacturer of outdoor and indoor synthetic spo Preferred Stock Series B-2 (B) Preferred Stock Series C (B) Common Stock (B) Limited Partnership Interest (B)	orts flooring and ot 9,081 shs. 4,757 shs. 380 shs. 6.8 8% int.	her temporary 1 07/05/07 07/05/07 07/05/07
*08/12/04 and 01/14/05.		
COREPHARMA LLC A manufacturer of oral dose generic pharmaceuticals targeted at	niche applications	
12% Senior Subordinated Note due 2013 Warrant, exercisable until 2013, to purchase	\$ 1,350,000	08/04/05
common stock at \$.001 per share (B)	10 shs.	08/04/05
CRANE RENTAL CORPORATION A crane rental company. 13% Senior Subordinated Note due 2015	\$ 1,215,000	08/21/08
Common Stock (B) Warrant, exercisable until 2016, to purchase	135,000 shs.	08/21/08
common stock at \$.01 per share (B)	72,037 shs.	08/21/08

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MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010 (Unaudited)

Principal Amount Shares, Units

CUSTOM ENGINEERED WHEELS, INC. A manufacturer of custom engineered, non-pneumatic plastic whee products and wheelchairs.	ls and plastic tre	ead cap tires use
12.5% Senior Subordinated Note due 2016	\$ 1,155,288	10/27/09
Preferred Stock PIK	156 shs.	10/27/09
Preferred Stock Series A	114 shs.	10/27/09
Common Stock (B)	38 shs.	10/27/09
Warrant, exercisable until 2016, to purchase		
common stock at \$.01 per share (B)	28 shs.	10/27/09
DAVIS-STANDARD LLC		
A manufacturer, assembler, and installer of a broad range of caprocessing of plastic materials.	pital equipment th	nat is used in th
12% Senior Subordinated Note due 2014	\$ 978,261	10/30/06
Limited Partnership Interest (B)	0.97% int.	10/30/06
Warrant, exercisable until 2014, to purchase		
preferred stock at \$.01 per share (B)	26 shs.	10/30/06
Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	18 shs.	10/30/06
DIVERSCO, INC./DHI HOLDINGS, INC. A contract provider of janitorial and equipment maintenance ser Membership Interests of MM/Lincap Diversco Investments Ltd. LLC (B) Preferred Stock (B) Warrants, exercisable until 2011, to purchase common stock of DHI Holdings, Inc. at \$.01 per share (B) * 10/24/96 and 08/28/98. DUNCAN SYSTEMS, INC.	13.57% int. 1,293 shs.	ny production lab 08/27/98 12/14/01 *
A distributor of windshields and side glass for the recreationa	l vehicle market	
10% Senior Secured Term Note due 2013	\$ 231,429	11/01/06
13% Senior Subordinated Note due 2014	\$ 488,572	11/01/06
Common Stock (B)	102,857 shs.	11/01/06
Warrant, exercisable until 2014, to purchase	20.004	11/01/06
common stock at \$.01 per share (B)	32,294 shs.	11/01/06
DWYER GROUP, INC. A franchiser of a variety of home repair services. Common Stock (B)	3,656 shs.	*
Warrant, exercisable until 2011, to purchase common stock at \$.01 per share (B)	1,077 shs.	10/30/03
*10/30/03 and 01/02/04.	1,077 5115.	10/30/03

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED)

Principal Amount Shares, Units

March 31, 2010 (Unaudited)

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CORPORATE RESTRICTED SECURITIES: (A) (Continued)	or Ownership Percentage	Acquisition Date
E S P HOLDCO, INC. A manufacturer of power protection technology for commercial off network.	fice equipment, pr	imarily supplyin
14% Senior Subordinated Note due 2015 Common Stock (B)	\$ 1,228,850 349 shs.	01/08/08 01/08/08
E X C ACQUISITION CORPORATION A manufacturer of pre-filled syringes and pump systems used for Warrant, exercisable until 2014, to purchase	intravenous drug	delivery.
common stock at \$.01 per share (B)	11 shs.	06/28/04
EATEM HOLDING COMPANY A developer and manufacturer of savory flavor systems for soups, for retail and foodservice end products.	sauces, gravies,	and other produ
12.5% Senior Subordinated Note due 2018 Common Stock Warrant, exercisable until 2018, to purchase	\$ 950,000 50 shs.	02/01/10 02/01/10
common stock at \$.01 per share (B)	119 shs.	02/01/10
F C X HOLDINGS CORPORATION A distributor of specialty/technical valves, actuators, accessor high purity, and energy end markets in North America. 15% Senior Subordinated Note due 2015 Preferred Stock (B) Common Stock (B)	\$ 1,169,376 2,298 shs. 1,625 shs.	instrumentation 10/06/08 10/06/08 10/06/08
F H S HOLDINGS LLC A national provider of customized disease management services to 12% Senior Subordinated Note due 2014 (D) Limited Liability Company Units of Linden/FHS Holdings LLC (B) Common Unit Class B (B)	large self-insur \$ 1,265,625 84 uts. 734 uts.	ed employers. 06/01/06 06/01/06 06/01/06
FLUTES, INC. An independent manufacturer of micro fluted corrugated sheet mat 10% Senior Secured Term Note due 2013 (D) 14% Senior Subordinated Note due 2014 (D)	serial for the food \$ 524,791 \$ 317,177	d and consumer p 04/13/06 04/13/06

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CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010 (Unaudited)

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date
GOLDEN COUNTY FOODS HOLDING, INC. A manufacturer of frozen appetizers and snacks. 16% Senior Subordinated Note due 2015 16% PIK Note due 2015 8% Series A Convertible Preferred Stock, convertible into fully diluted common shares (B)	\$ 1,012,500 \$ 212,282 77,643 shs.	11/01/07 12/31/08 11/01/07
H M HOLDING COMPANY A designer, manufacturer, and importer of promotional and woo 7.5% Senior Subordinated Note due 2013 (D) Preferred Stock (B) Preferred Stock Series B (B) Common Stock (B) Common Stock Class C (B) Warrant, exercisable until 2013, to purchase common stock at \$.02 per share (B)	d furniture. \$ 362,700 21 shs. 1,088 shs. 180 shs. 296 shs. 67 shs.	10/15/09 * 10/15/09 02/10/06 10/15/09 02/10/06
* 09/18/07 and 06/27/08. HIGHGATE CAPITAL LLC An acquirer of controlling or substantial interests in manufa Series A Preferred Units (B)	cturing and marketing 0.30% int.	g entities. 07/21/94
HOME DECOR HOLDING COMPANY A designer, manufacturer and marketer of framed art and wall 12.5% Senior Subordinated Note due 2012 Common Stock (B) Warrant, exercisable until 2012, to purchase common stock at \$.02 per share (B)	decor products. \$ 1,081,731 33 shs. 106 shs.	* *
* 06/30/04 and 08/19/04.		
HOSPITALITY MINTS HOLDING COMPANY A manufacturer of individually-wrapped imprinted promotional 12% Senior Subordinated Note due 2016 Common Stock (B) Warrant, exercisable until 2016, to purchase common stock at \$.01 per share (B)	mints. \$ 1,098,837 251 shs. 65 shs.	08/19/08 08/19/08 08/19/08

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010 (Unaudited)

Principal Amount Shares, Units or Ownership Acquisition
Percentage Date CORPORATE RESTRICTED SECURITIES: (A) (Continued) _____ _____ INSURANCE CLAIMS MANAGEMENT, INC. A third party administrator providing auto and property claim administration services for insuran Common Stock (B) 37 shs. 02/27/07 Warrant, exercisable until 2011, to purchase common stock at \$.01 per share (B) 11 shs. 02/27/07 INTERNATIONAL OFFSHORE SERVICES LLC A leading provider of marine transportation services, platform decomissioning, and salvage services shallow waters of the Gulf of Mexico. 14.25% Senior Subordinated Secured Note due 2017 \$ 1,350,000 07/07/09 1,647 uts. 07/07/09 Limited Liability Company Unit (B) JASON, INC. A diversified manufacturing company serving various industrial markets. \$ 510,187 08/04/00 13% Senior Subordinated Note due 2010 Limited Partnership Interest of Saw Mill Capital Fund II, L.P. (B) 1.30% int. 08/03/00 Warrant, exercisable until 2010, to purchase 26,931 shs. common stock at \$.01 per share (B) 08/04/00 JUSTRITE MANUFACTURING ACOUISITION CO. A manufacturer of safety products such as storage cabinets and containers. \$ 843,750 12/15/04 12% Senior Subordinated Note due 2011 Warrant, exercisable until 2011, to purchase 594 shs. common stock at \$.01 per share (B) 12/15/04 K H O F HOLDINGS, INC. A manufacturer of premium disposable tableware products serving both the foodservice and consumer 14% Senior Subordinated Note due 2014 \$ 1,295,234 10/15/07 116,827 shs. 10/15/07 Common Stock (B) K N B HOLDINGS CORPORATION A designer, manufacturer and marketer of products for the custom framing market. \$ 1,595,057 05/25/06 71,053 shs. 05/25/06 15.5% Senior Subordinated Note due 2013

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Common Stock (B)

Warrant, exercisable until 2013, to purchase

common stock at \$.01 per share (B)

43,600 shs. 05/25/06

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010 (Unaudited)

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Share: or On Pero	pal Amount s, Units wnership centage	Acquisition Date
K P I HOLDINGS, INC. Pace Industries is the largest player in the U.S. non-automotive 13% Senior Subordinated Note due 2014 Convertible Preferred Stock Series C (B) Convertible Preferred Stock Series D (B) Common Stock (B)	\$ 1,	-ferrous die ca ,115,217 29 shs. 13 shs. 235 shs.	sting segment 07/16/08 06/30/09 09/17/09 07/15/08
Warrant, exercisable until 2018, to purchase common stock at \$.01 per share (B)	;	388 shs.	*
* 07/16/08 and 09/17/09. K W P I HOLDINGS CORPORATION			
A manufacturer and distributor of vinyl windows and patio doors	throu	ghout the north	western Unite
18% Senior Subordinated Note due 2014	\$ 1,	,488,425	03/14/07
Common Stock (B) Warrant, exercisable until 2019, to purchase	:	123 shs.	03/13/07
preferred stock at \$.01 per share (B) Warrant, exercisable until 2017, to purchase		71 shs.	07/07/09
common stock at \$.01 per share (B)		89 shs.	03/14/07
K-TEK HOLDING CORPORATION A manufacturer of instrumentation for liquid and bulk solids le 14% Senior Subordinated Note due 2015 Preferred Stock (B) Common Stock (B)	\$ 1, 192 ,	tection for pro ,211,004 314 shs. 326 shs.	12/20/07 12/20/07
L H D EUROPE HOLDING, INC. A non-carbonated beverage dispensing company focused on the foc Common Stock (B)	d serv	ice industry. 45 shs.	12/28/09
M V I HOLDING, INC. A manufacturer of large precision machined metal components use oil and gas, mining, and defense markets.	d in e	quipment which	services a va
13% Senior Subordinated Note due 2016	\$	652,886	09/12/08
Common Stock (B) Warrant, exercisable until 2018, to purchase		32 shs.	09/12/08
common stock at \$.01 per share (B)		35 shs.	09/12/08

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010

(Unaudited)

	Principal Amount Shares, Units or Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Percentage	Date
MAIL COMMUNICATIONS GROUP, INC.		
A provider of mail processing and handling services, lettersh		
12.5% Senior Subordinated Note due 2014	\$ 516,177	05/04/07
Limited Liability Company Unit (B) Warrant, exercisable until 2014, to purchase	12,763 uts.	^
common stock at \$.01 per share (B)	1,787 shs.	05/04/07
common cocon de quel per chare (2)	1, 101 5115.	00,01,0,
* 05/04/07 and 01/02/08.		
MANHATTAN BEACHWEAR HOLDING COMPANY		
A designer and distributor of women's swimwear.		
12.5% Senior Subordinated Note due 2018	\$ 882,353	01/15/10
Common Stock (B)	118 shs.	01/15/10
Warrant, exercisable until 2019, to purchase		
common stock at \$.01 per share (B)	104 shs.	01/15/10
MAVERICK ACQUISITION COMPANY A manufacturer of capsules that cover the cork and neck of wi 6.79% Senior Secured Tranche A Note due 2010 (C) 12.5% Senior Secured Tranche B Note due 2011 6.75% Senior Secured Revolver due 2011 (C) Limited Partnership Interest (B) Warrant, exercisable until 2011, to purchase common stock at \$.01 per share (B) MEDSYSTEMS HOLDINGS LLC	ne bottles. \$ 128,230 \$ 179,104 \$ 29,105 4.48% int. 243 shs.	09/03/04 09/03/04 09/03/04 09/03/04
A manufacturer of enteral feeding products, such as feeding t	tubes and other produ	cts related to a
13% Senior Subordinated Note due 2015	\$ 617 , 585	08/29/08
Preferred Unit (B)	66 uts.	• •
Common Unit Class A (B)	671 uts.	08/29/08
Common Unit Class B (B)	250 uts.	08/29/08
MEGTEC HOLDINGS, INC.		
A supplier of industrial and environmental products and servi	-	
12% Senior Subordinated Note due 2016	\$ 1,144,068	09/24/08
Preferred Stock (B)	56 shs. 0.74% int.	09/24/08
Limited Partnership Interest (B) Warrant, exercisable until 2018, to purchase	U./4% lnt.	09/16/08
common stock at \$.01 per share (B)	18 shs.	09/24/08

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MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED)

March 31, 2010 (Unaudited)

	Shar	ipal Amount es, Units Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continu	ed) Pe	rcentage	Date
MICROGROUP, INC.			
A manufacturer of precision parts and assem 12% Senior Subordinated Note due 2013 (D)		1,421,795	tubing and *
Common Stock (B) Warrant, exercisable until 2013, to purchas common stock at \$.02 per share (B)	е	238 shs. 87 shs.	*
*08/12/05 and 09/11/06.			
MILWAUKEE GEAR COMPANY			
A manufacturer of high-precision custom gea industries.	rs and gear drives used b	y original equipm	nent manufact
13% Senior Subordinated Note due 2014	\$	1,246,154	07/21/08
Preferred Stock (B) Common Stock (B)		139 shs. 9 shs.	07/21/08 07/21/08
Warrant, exercisable until 2014, to purchas	е		.,,,,
common stock at \$.01 per share (B)		6 shs.	07/21/08
MOMENTUM HOLDING CO. A designer and supplier of upholstery fabri Limited Partnership Interest (B)	11	manufacturers ar	nd architectu 08/04/06
Warrant, exercisable until 2014, to purchas common stock at \$.02 per share (B)	е	586 shs.	08/04/06
MONESSEN HOLDING CORPORATION A designer and manufacturer of a broad line 14% Senior Subordinated Note due 2014 (D) 14% PIK Note due 2014 (D) Warrant, exercisable until 2014, to purchas	\$ \$	ic hearth product 1,350,000 419,713	s and access 07/25/08 07/25/08
common stock at \$.02 per share (B)		81 shs.	03/31/06
NABCO, INC.			
A producer of explosive containment vessels 14% Senior Subordinated Note due 2014 Limited Liability Company Unit (B) Warrant, exercisable until 2016, to purchas	\$	330,882 437 uts.	02/24/06
common stock at \$.01 per share (B)		68 shs.	02/24/06
* 02/24/06 and 06/22/07.			

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010

(Unaudited)

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date
NAVIS GLOBAL A designer, manufacturer, seller and servicer of finishing ma 12% Senior Secured Term Note Series A due 2010 14% Senior Subordinated Note due 2014 (D) 10.75% Senior Secured Note due 2011 (D)	chinery for the knit \$ 16,854 \$ 764,921 \$ 348,118	and woven segme 11/14/08 05/28/04 05/28/04
NESCO HOLDINGS CORPORATION A sales and leasing company that provides equipment to the el 12% Senior Secured Subordinated Note due 2015 Common Stock (B) Warrant, exercisable until 2015, to purchase common stock at \$.01 per share (B)	ectric utility, telection \$ 1,125,000 225,000 shs.	communications, 08/02/07 08/02/07 08/02/07
NETSHAPE TECHNOLOGIES, INC. A manufacturer of powder metal and metal injection molded pre 12% Senior Subordinated Note due 2014 Limited Partnership Interest of Saw Mill PCG Partners LLC (B) Limited Liability Company Unit Class D of Saw Mill PCG Partners LLC (B) Limited Liability Company Unit Class D- 1 of Saw Mill PCG Partners LLC (B) Preferred Stock Class A (B) Preferred Stock Class A-1 (B) Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	1.38% int. 8 uts. 43 uts. 1 sh. 4 shs.	ed in industrial 02/02/07 02/01/07 * 09/30/09 12/18/08 09/30/09 02/02/07
* 12/18/09 and 09/30/09. NORTHWEST MAILING SERVICES, INC. A producer of promotional materials for companies that use di 12% Senior Subordinated Note due 2016 Limited Partnership Interest (B) Warrant, exercisable until 2019, to purchase common stock at \$.01 per share (B)		

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MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010

(Unaudited)

Principal Amount

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Shares, Units or Ownership Percentage		Acquisition Date
NYLONCRAFT, INC. A supplier of engineered plastic components for the automotive		-	
10% Senior Secured Note due 2012	\$	464,286	01/28/02
15% Senior Subordinated Note due 2012 (D)	\$	•	01/28/02
Convertable Preferred Stock A (B)	4.00	571 shs.	01/28/02
Common Stock (B)	1/8	3,571 shs.	01/28/02
Warrant, exercisable until 2012, to purchase	1 2 0	000 -1	01 /00 /00
common stock at \$.01 per share (B)	136	3,928 shs.	01/28/02
OAKRIVER TECHNOLOGY, INC. Designs, engineers and assembles high precision automated proce	ess ec	quipment for the	medical devic
defibrillators and stents.			
10% Senior Secured Note due 2012	\$	•	01/03/06
13% Senior Subordinated Note due 2013	\$,	01/03/06
Common Stock (B)	184	1,176 shs.	01/03/06
Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)	43	3,073 shs.	01/03/06
OLYMPIC SALES, INC. A boat retailer in Washington state, Oregon, California and Bri 12% Senior Subordinated Note due 2010 (D) 12% Senior Subordinated Note due 2010 (D)	itish \$ \$	511,000	08/07/98 02/09/00
ONTARIO DRIVE & GEAR LTD. A manufacturer of all-wheel drive, off-road amphibious vehicles Limited Liability Company Unit (B) Warrant, exercisable until 2013, to purchase		related accessor 1,942 uts.	ies. 01/17/06
common stock at \$.01 per share (B)		328 shs.	01/17/06
P A S HOLDCO LLC An independent provider of maintenance, repair and overhaul ser 14% Senior Subordinated Note due 2014 Preferred Unit (B) Preferred Unit (B)		s to the aerospac 1,236,634 202 uts. 36 uts.	e gas turbine 07/03/06 07/03/06 07/03/06
Common Unit Class I (B)		78 uts.	07/03/06
Common Unit Class L (B)		17 uts.	07/03/06

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010 (Unaudited)

Principal Amount

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Shares, Units or Ownership Percentage	Acquisition Date
P I I HOLDING CORPORATION A manufacturer of plastic film and bags for the general ind 12% Senior Subordinated Note due 2013 Preferred Stock (B) Common Stock (B) Warrant, exercisable until 2013, to purchase	\$ 1,215,000 19 shs.	food industries. 03/31/06 03/31/06 03/31/06
common stock at \$.01 per share (B)	7 shs.	03/31/06
PACIFIC CONSOLIDATED HOLDINGS LLC A manufacturer of rugged, mobile liquid and gaseous oxygen and medical sectors. 14% Senior Subordinated Note due 2012 Limited Liability Company Unit (B)	and nitrogen generatin \$ 704,835 928,962 uts.	04/27/07
PARADIGM PACKAGING, INC. A manufacturer of plastic bottles and closures for the nutr 12% Senior Subordinated Note due 2011 Membership Interests of MM/Lincap PPI Investments, Inc., LLC (B)		12/19/00
PEARLMAN ENTERPRISES, INC. A developer and distributor of tools, equipment and supplie Preferred Stock Series A (B) Preferred Stock Series B (B) Common Stock (B)	s to the natural and e 1,236 shs. 7,059 shs. 21.462 shs.	05/22/09 05/22/09
POSTLE ALUMINUM COMPANY LLC A manufacturer and distributor of aluminum extruded product 3% Senior Subordinated PIK Note due 2014 (D) Limited Liability Company Unit Class A Limited Liability Company Unit Warrant, exercisable until 2016, to purchase common stock at \$.01 per share (B)	s. \$ 1,163,700 733 uts. 76 uts. 4,550 shs.	10/02/06 10/02/06 05/22/09 10/02/06

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MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010 (Unaudited)

> Principal Amount Shares, Units or Ownership Acquisition

3		
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Percentage	Date
DOWED CEDUTCES HOLDING COMPANY		
POWER SERVICES HOLDING COMPANY A provider of industrial motor repair services, predictive and		
serving the petrochemical, mining, power generation, metals, a		
12% Senior Subordinated Note due 2016	\$ 1,255,814	02/11/08
Limited Partnership Interest (B) Warrant, exercisable until 2016, to purchase	12.55% int.	02/11/08
common stock at \$.01 per share (B)	700 shs.	02/11/08
PRECISION WIRE HOLDING COMPANY		
A manufacturer of specialty medical wires that are used in nor 14.25% Senior Subordinated Note due 2016	n-elective minimally : \$ 1,357,886	invasive surgio 11/12/09
Warrant, exercisable until 2019, to purchase	7 1,337,000	11/12/09
common stock at \$.01 per share (B)	109 shs.	11/12/09
QUALIS AUTOMOTIVE LLC A distributor of aftermarket automotive brake and chassis prod 13% Senior Subordinated Note due 2012 Common Stock (B) Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)	ducts. \$ 922,612 187,500 shs. 199,969 shs.	05/28/04 05/28/04 05/28/04
RAJ MANUFACTURING HOLDINGS LLC A designer and manufacturer of women's swimwear sold under a v	_	
14.5% Senior Subordinated Note due 2014	\$ 1,288,627	12/15/06
Limited Liability Company Unit (B)	1,497 uts.	12/15/06
Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	2 shs.	12/15/06
R E I DELAWARE HOLDING, INC. An engineer and manufacturer of highly complex, close tolerand primarily for aerospace, medical and defense/radar markets. 12% Senior Subordinated Note due 2016 Warrant, exercisable until 2018, to purchase common stock at \$.01 per share (B)	\$ 1,350,000 3 shs.	lies, tooling a 01/18/08 01/18/08
ROYAL BATHS MANUFACTURING COMPANY A manufacturer and distributor of acrylic and cultured marble 12.5% Senior Subordinated Note due 2011 Warrant, exercisable until 2011, to purchase common stock at \$.01 per share (B)	bathroom products. \$ 562,500 74 shs.	11/14/03 11/14/03

March 31, 2010 (Unaudited)

	Sha	cipal Amount res, Units Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Р	ercentage	Date
SAFETY SPEED CUT MANUFACTURING COMPANY, INC. A manufacturer of vertical panel saws and routers for the wood Class B Common Stock (B)	work	ing industry. 846 shs.	06/02/99
SAVAGE SPORTS HOLDING, INC. A manufacturer of sporting firearms. 12% Senior Subordinated Note due 2012 Common Stock (B) Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)	\$	814,655 324 shs. 71 shs.	09/10/04 *
* 09/10/04 and 10/05/07.			
SENCORE HOLDING COMPANY A designer, manufacturer, and marketer of decoders, receivers operators for encoding/decoding analog and digital transmission 12.5% Senior Subordinated Note due 2014 Common Stock (B) Warrant, exercisable until 2019, to purchase common stock at \$.01 per share (B)			to broadcasters 01/15/09 01/15/09 01/15/09
SMART SOURCE HOLDINGS LLC A short-term computer rental company. 12% Senior Subordinated Note due 2015 Limited Liability Company Unit (B) Warrant, exercisable until 2015, to purchase common stock at \$.01 per share (B)	\$	1,176,924 328 uts. 83 shs.	* *
* 08/31/07 and 03/06/08.			
SPARTAN FOODS HOLDING COMPANY A manufacturer of branded pizza crusts and pancakes. 12.5% Senior Subordinated Note due 2017 Warrant, exercisable until 2018, to purchase common stock at \$.01 per share (B)	\$	1,012,500 136 shs.	12/15/09 12/15/09
SPECIALTY COMMODITIES, INC. A distributor of specialty food ingredients. 13.25% Senior Subordinated Note due 2016 Common Stock (B) Warrant, exercisable until 2018, to purchase common stock at \$.01 per share (B)	1	1,212,720 5,882 shs. 5,852 shs.	10/23/08 10/23/08 10/23/08

MassMutual Participation Investors

Principal Amount

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED)
March 31, 2010
(Unaudited)

* 05/20/09 and 09/02/09.

Shares, Units or Ownership Acquisition Percentage Date CORPORATE RESTRICTED SECURITIES: (A) (Continued) STANTON CARPET HOLDING CO. A designer and marketer of high and mid-priced decorative carpets and rugs. 12.13% Senior Subordinated Note due 2014 \$ 1,185,366 08/01/06 Common Stock (B) \$ 1,65 shs. 08/01/06 Warrant, exercisable until 2014, to purchase 55 shs. 08/01/06 common stock at \$.02 per share (B) SUNDANCE INVESTCO LLC A provider of post-production services to producers of movies and television shows. Limited Liablility Company Unit Class A 3,405 shs. 03/31/10 SYNTERACT HOLDINGS CORPORATION A provider of outsourced clinical trial management services to pharmaceutical and biotechnology of Redeemable Preferred Stock Series A (B) \$ 1,371,709 09/02/08 678 shs. 09/02/08 Warrant, exercisable until 2018, to purchase 6,778 shs. common stock at \$.01 per share (B) 09/02/08 T H I ACQUISITION, INC. A machine servicing company providing value-added steel services to long steel products. 12% Senior Subordinated Note due 2016 \$ 1,350,000 01/14/08 Warrant, exercisable until 2016, to purchase 5 shs. 01/14/08 common stock at \$.01 per share (B) TANGENT RAIL CORPORATION A manufacturer of rail ties and provider of specialty services to the North American railroad ind \$ 1,173,909 10/14/05 13% Senior Subordinated Note due 2015 10/14/05 Common Stock (B) 1,167 shs. Warrant, exercisable until 2015, to purchase common stock at \$.01 per share (B) 09/30/08 631 shs. TELECORPS HOLDINGS, INC. A provider of equipment and services to producers of television shows and motion pictures. \$ 1,681,677 12.75% Senior Subordinated Note due 2016 143 shs. 09/02/09 Common Stock (B) Warrant, exercisable until 2019, to purchase 4,187 shs. common stock at \$.01 per share (B)

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED)
March 31, 2010
(Unaudited)

	Shar or	cipal Amount ces, Units Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continued)		ercentage	Date
TERRA RENEWAL LLC A provider of wastewater residual management and required env			, permitting, n
record keeping to companies involved in poultry and food proce 12% Senior Subordinated Note due 2014	essing. \$	664,062	*
6.79% Term Note due 2012 (C)	\$	781,483	*
8.75% Term Note due 2012 (C)	\$	826	*
Limited Partnership Interest of			
Saw Mill Capital Fund V, LLC (B)	2	2.27% int.	* *
Warrant, exercisable until 2016, to purchase			
common stock at \$.01 per share (B)		41 shs.	04/28/06
* 04/28/06 and 09/13/06. ** 03/01/05 and 10/10/08.			
TORRENT GROUP HOLDINGS, INC.			
A contractor specializing in the sales and installation of enuisance water flow.	gineere	ed drywells fo	
12.5% Senior Subordinated Note due 2013 (D)	\$	1,185,366	10/26/07
Series A Preferred Stock (B)		219 shs.	10/26/07
TOTAL E & S, INC.			
A manufacturer of a wide variety of equipment used in the oil	and ga	s industry.	
10.5% Senior Secured Term Note due 2013	\$	_	03/02/07
13% Senior Subordinated Note due 2014 (D)	\$	341 , 971	03/02/07
TRANSPAC HOLDING COMPANY A designer, importer, and wholesaler of home decor and season	al αift	products.	
12% Senior Subordinated Note due 2015 (D)	\$	938,651	10/31/07
Common Stock (B)		110 shs.	10/31/07
Warrant, exercisable until 2015, to purchase			
common stock at \$.01 per share (B)		50 shs.	10/31/07
TRANSTAR HOLDING COMPANY A distributor of aftermarket automotive transmission parts.			
12% Senior Subordinated Note due 2014	\$	918,000	08/31/05
Common Stock (B)		571 shs.	*
Warrant, exercisable until 2013, to purchase			
common stock at \$.02 per share (B)		46 shs.	08/31/05

* 08/31/05 and 04/30/07.

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MassMutual Participation Investors

Principal Amount

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED)
March 31, 2010
(Unaudited)

		cipal Amount ares, Units	
		Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	P	ercentage e	Date
TRANZONIC COMPANIES (THE)			
A producer of commercial and industrial supplies, such as safet supplies and sanitary care products.	ty pr	oducts, janit	corial supplies, w
13% Senior Subordinated Note due 2010	\$	1,356,000	02/05/98
Common Stock (B)		315 shs.	02/04/98
Warrant, exercisable until 2010, to purchase			
common stock at \$.01 per share (B)		222 shs.	02/05/98
TRUCK BODIES & EQUIPMENT INTERNATIONAL A designer and manufacturer of accessories for heavy and medium	m dut	y trucks, pri	imarily dump bodie
bodies, landscape bodies and other accessories.	ć	1 000 600	*
16% Senior Subordinated Note due 2010 (D)	Ş	1,222,698	
Preferred Stock Series B (B)		128 shs.	10/20/08
Common Stock (B)		393 shs.	*
Warrant, exercisable until 2013, to purchase			
common stock at \$.02 per share (B)		81 shs.	*
Warrant, exercisable until 2018, to purchase			- / /
common stock at \$.01 per share (B)		558 shs.	10/20/08
* 07/19/05 and 12/22/05.			
TRUSTILE DOORS, INC.			
A manufacturer and distributor of interior doors.			
Warrant, exercisable until 2010, to purchase			
common stock at \$.01 per share (B)		3,060 shs.	04/11/03
•		-, -	
U M A ENTERPRISES, INC.			
An importer and wholesaler of home decor products.			
15% Senior Subordinated Note due 2015	\$	938 , 797	02/08/08
Convertible Preferred Stock (B)		470 shs.	02/08/08
U-LINE CORPORATION			
A manufacturer of high-end, built-in, undercounter ice making,	wine	storage and	refrigeration app
14.5% Senior Subordinated Note due 2012	\$	996 , 500	04/30/04
14.5% PIK Note due 2012	\$	139,125	10/06/09
Common Stock (B)		96 shs.	04/30/04
Warrant, exercisable until 2012, to purchase			
common stock at \$.01 per share (B)		122 shs.	04/30/04
-			

MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010 (Unaudited)

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date
VISIONEERING, INC. A designer and manufacturer of tooling and fixtures for the act 10.5% Senior Secured Term Loan due 2013 13% Senior Subordinated Note due 2014 18% PIK Convertable Preferred Stock (B) Common Stock (B) Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	\$ 458,824 \$ 370,588 21,361 shs. 70,588 shs. 20,003 shs.	05/17/07 05/17/07 03/13/09 05/17/07
VITEX PACKAGING GROUP, INC. A manufacturer of specialty packaging, primarily envelopes and 10% Senior Subordinated PIK Note due 2011 (D) 5% Senior Subordinated PIK Note due 2011 (D) Class B Unit (B) Class C Unit (B) Limited Liability Company Unit Class A (B) Limited Liability Company Unit Class B (B)	d tags used on tea bag \$ 85,308 \$ 450,000 406,525 uts. 450,000 uts. 383,011 uts. 96,848 uts.	07/19/04 06/30/07 10/29/09 10/29/09 * 07/19/04
* 07/19/04 and 10/29/09. WAGGIN' TRAIN HOLDINGS LLC A producer of premium quality meat dog treats. 14% Senior Subordinated Note due 2014 Limited Liability Company Unit Class B (B) Limited Liability Company Unit Class C (B)	\$ 1,180,960 224 uts. 224 uts.	11/15/07 11/15/07 11/15/07
WALLS INDUSTRIES, INC. A provider of branded workwear and sporting goods apparel. Limited Partnership Interest (B) Common Stock (B)	0.20% int. 2,133 shs.	07/12/04 12/21/07
WELLBORN FOREST HOLDING CO. A manufacturer of semi-custom kitchen and bath cabinetry. 14.13% Senior Subordinated Note due 2014 Common Stock (B) Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	\$ 911,250 101 shs. 51 shs.	11/30/06 11/30/06 11/30/06

MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED)
March 31, 2010
(Unaudited)

Principal Amount	
Shares, Units	
or Ownership	Acquisition
Percentage	Date
n access to consumers i	n the workplace
\$ 613 , 692	05/14/07
12.26% int.	05/14/07
47 shs.	05/14/07
1	Shares, Units or Ownership Percentage access to consumers i \$ 613,692 12.26% int.

XALOY SUPERIOR HOLDINGS, INC.

A provider of melt processing components and ancillary equipment for both plastic injection moldi 15.5% Senior Subordinated Note due 2015 (D) \$1,229,741\$ 09/08/08 Common Stock (B) 150 shs. 09/08/08

TOTAL PRIVATE PLACEMENT INVESTMENTS (E)

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED)
March 31, 2010
(Unaudited)

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Interest Rate	Due Date	Pr	nares or rincipal Amount	 Cost
RULE 144A SECURITIES - 3.76%:					
BONDS - 3.76%					
ACCO Brands Corporation	10.625%	03/15/15	\$	45,000	\$ 44,36
Advanced Micro Devices, Inc.	8.125	12/15/17		190,000	180,51
Appleton Papers, Inc.	11.250	12/15/15		252,000	250 , 00
Avis Budget Car Rental LLC	9.625	03/15/18		40,000	39 , 45
Cenveo Corporation	10.500	08/15/16		45,000	45,00
Coffeyville Resources LLC	9.000	04/01/15		70,000	69 , 65

Compucom Systems, Inc. CONSOL Energy, Inc.	12.500 8.250	10/01/15 04/01/20	670,000 15,000	651,90
CONSOL Energy. Inc.		04/01/20	15 000	4 = 0.0
001.001 1.10191, 1110.	7 7 7 7		13,000	15,00
Douglas Dynamics LLC	7.750	01/15/12	485,000	461,64
Eastman Kodak Co.	9.750	03/01/18	375 , 000	367 , 42
G F S I, Inc. (C)	10.500	06/01/11	358,000	343 , 94
Gannett Company, Inc.	9.375	11/15/17	60,000	59 , 14
Headwaters, Inc.	11.375	11/01/14	45,000	44,58
International Lease Finance Corporation	8.625	09/15/15	75,000	73,81
JohnsonDiversey, Inc.	8.250	11/15/19	45,000	44,62
L B I Escrow Corporation	8.000	11/01/17	100,000	
New Communications Holdings, Inc.	8.250	04/15/17	500,000	
Sealed Air Corporation	7.875	06/15/17	500,000	
Sinclair Television Group, Inc.	9.250	11/01/17		194 , 72
T W Telecom Holdings, Inc.	8.000	03/01/18	10,000	9,92
ViaSystems, Inc.	12.000	01/15/15	100,000	96,45
TOTAL BONDS				4,084,68
CONVERTIBLE PREFERRED STOCK - 0.00%				
ETEX Corporation (B)			194	17
TOTAL CONVERTIBLE PREFERRED STOCK				17
PREFERRED STOCK - 0.00%				
TherOX, Inc. (B)			26	1,03
TOTAL PREFERRED STOCK				1,03
COMMON STOCK - 0.00%				
Touchstone Health Partnership (B)			292	1,06
TOTAL COMMON STOCK				1,06
TOTAL RULE 144A SECURITIES				4,086,96
TOTAL CORPORATE RESTRICTED SECURITIES				\$119,820,41
TOTAL CORPORATE RESTRICTED SECURITIES				\$119,820,4

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MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010 (Unaudited)

CORPORATE PUBLIC SECURITIES - 15.19%: (A)	Interest Rate	Due Date	Principal Amount	 Cost
BONDS - 14.62%				
Affinia Group, Inc.	9.000%	11/30/14	\$ 25,000	\$ 24,25
Allegheny Technologies, Inc.	9.375	06/12/19	500,000	521 , 41
Allied Waste NA	7.125	05/15/16	500,000	506,23
American General Finance Corporation	6.500	09/15/17	250,000	215,00
C R H America, Inc.	5.300	10/15/13	500,000	418,43

Centurytel, Inc.	5.000	02/15/15	500,000	516,35
Citigroup, Inc.	5.500	04/11/13	500,000	437,89
Cytec Industries, Inc.	8.950	07/01/17	600,000	603,88
Equifax, Inc.	4.450	12/01/14	500,000	518,26
Exide Corporation	10.500	03/15/13	250,000	252,68
Gencorp, Inc.	9.500	08/15/13	130,000	130,00
General Electric Capital Corporation	5.500	01/08/20	500,000	498,05
Goldman Sachs Group, Inc.	4.750	07/15/13	500,000	418,64
Goodyear Tire & Rubber Co.	10.500	05/15/16	50,000	48,10
Intelsat Jackson Holdings	9.250	06/15/16	690,000	714,19
International Game Technology	7.500	06/15/19	500,000	499,72
International Lease Finance Corporation	5.875	05/01/13	500,000	448,18
Iron Mountain, Inc.	8.750	07/15/18	500,000	512,61
Johnson Controls, Inc.	5.500	01/15/16	500,000	398,12
Manitowoc Company, Inc.	7.125	11/01/13	100,000	100,00
Markwest Energy Operating Co.	6.875	11/01/14	35,000	27,78
Masco Corporation	7.125	03/15/20	350,000	349,99
Morgan Stanley	5.500	01/26/20	500,000	497,30
Nortek, Inc.	11.000	12/01/13	100,444	98,95
Owens Corning, Inc.	9.000	06/15/19	30,000	29,51
Qwest Diagnostic, Inc.	4.750	01/30/20	500,000	498,66
Rental Service Corporation	9.500	12/01/14	175,000	175 , 67
Sheridan Acquisition Corporation	10.250	08/15/11	225,000	222,00
Speedway Motorsports, Inc.	8.750	06/01/16	35,000	33,94
Sprint Capital Corporation	6.900	05/01/19	440,000	405,22
Stewart & Stevenson LLC	10.000	07/15/14	735,000	754 , 88
Teck Resources Ltd.	10.750	05/15/19	30,000	28,55
Texas Industries, Inc.	7.250	07/15/13	35,000	35,00
The Valspar Corporation	7.250	06/15/19	500,000	501,46
Ticketmaster Entertainment, Inc.	10.750	07/28/16	250,000	250,00
Time Warner Cable, Inc.	5.000	02/01/20	500,000	489,79
Titan International, Inc.	8.000	01/15/12	70,000	70,00
Tube City IMS Corporation	9.750	02/01/15	1,000,000	989,44
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CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010 (Unaudited)

CORPORATE PUBLIC SECURITIES: (A) (Continued)	Interest Rate	Due Date	Shares or Principal Amount	Cost
Tyco International Group SA Tyco International Group SA United Components, Inc. Verso Paper Holdings LLC W P P Finance Corporation	8.500% 6.550 9.375 9.125 5.875	01/15/19 10/01/17 06/15/13 08/01/14 06/15/14	\$ 500,000 125,000 535,000 500,000 500,000	124,99 535,26 486,87
TOTAL BONDS				15,353,00
COMMON STOCK - 0.56% CKX, Inc. (B) Directed Electronics, Inc. (B) ITC^DeltaCom, Inc. (B) Intrepid Potash, Inc. (B)			52,500 195,118 94,588 185	422,62 982,86 827,64 5,92

Nortek, Inc. (B) Rue21, Inc. (B)			100 350	6,65
TOTAL COMMON STOCK				2,245,70
CONVERTIBLE BONDS - 0.01%				
Citadel Broadcasting Corporation	4.000%	02/15/11	\$ 250,000	194,06
TOTAL CONVERTIBLE BONDS				194,06
TOTAL CORPORATE PUBLIC SECURITIES				\$ 17,792,78
SHORT-TERM SECURITIES:		Date	Principal Amount	Cost
COMMERCIAL PAPER - 1.97%				
Sabmiller PLC	0.270%	04/05/10	\$ 2,200,000	2,199,93
TOTAL SHORT-TERM SECURITIES				2,199,93
TOTAL INVESTMENTS	108.43%			\$139,813,13
Other Assets	4.62			
Liabilities	(13.05)			
TOTAL NET ASSETS	100.00%			
(A) In each of the convertible note, warr certain registration rights.(B) Non-income producing security.	rant, and common st	tock invest	ments, the issu	uer has agree

- (B) Non-income producing security.
- (C) Variable rate security; rate indicated is as of 03/31/10.
- (D) Defaulted security; interest not accrued.
- (E) Illiquid security. As of March 31, 2010, the values of these securities amounted to \$97,697, of net assets.
- ^ Effective yield at purchase

PIK - Payment-in-kind

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MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010 (Unaudited)

INDUSTRY CLASSIFICATION: Fair Val Market Va				
AEROSPACE - 4.33%		BUILDINGS & REAL ESTATE -		
A E Company, Inc.	\$ 1,794,703	K W P I Holdings Corporati		
Gencorp, Inc.	132,113	Masco Corporation		
P A S Holdco LLC	2,072,752	Owens Corning, Inc.		
Visioneering, Inc.	837,803	Texas Industries, Inc.		
		TruStile Doors, Inc.		

	4,837,371	
AUTOMOBILE - 4.63%		
Exide Corporation	253,750	CHEMICAL, PLASTICS & RUBBE
Goodyear Tire & Rubber Co.	54,000	Capital Specialty Plastics
Jason, Inc.	25 , 509	
Johnson Controls, Inc.	535,334	CONSUMER PRODUCTS - 9.61%
Nyloncraft, Inc.	348,215	Aero Holdings, Inc.
Ontario Drive & Gear Ltd.	287,141	Bravo Sports Holding Corpo
Qualis Automotive LLC	1,362,815	Custom Engineered Wheels,
Titan International, Inc.	70,000	Eastman Kodak Co.
Transtar Holding Company	1,693,931	G F S I, Inc.
United Components, Inc.	537 , 675	JohnsonDiversey, Inc.
		K N B Holdings Corporation
	5,168,370 	Manhattan Beachwear Holdin Momentum Holding Co.
BEVERAGE, DRUG & FOOD - 8.51%		R A J Manufacturing Holdin
Eatem Holding Company	992,395	Royal Baths Manufacturing
Golden County Foods Holding, Inc.	1,102,304	The Tranzonic Companies
Hospitality Mints Holding Company	1,109,473	Walls Industries, Inc.
L H D Europe Holding, Inc.	12,825	,
Sabmiller PLC	2,199,934	
Spartan Foods Holding Company	1,013,990	
Specialty Commodities, Inc.	1,380,803	CONTAINERS, PACKAGING & GL
Waggin' Train Holdings LLC	1,682,469	Flutes, Inc.
		Maverick Acquisition Compa
	9,494,193	P I I Holding Corporation Paradigm Packaging, Inc.
BROADCASTING & ENTERTAINMENT - 1.95%		Sealed Air Corporation
Citadel Broadcasting Corporation	13,750	Vitex Packaging Group, Inc
CKX, Inc.	321,825	
Sinclair Television Group, Inc.	211,000	
Speedway Motorsports, Inc.	37 , 275	
Time Warner Cable, Inc.	492,991	DISTRIBUTION - 1.92%
WPP Finance Corporation	528 , 698	Duncan Systems, Inc.
Workplace Media Holding Co.	569 , 242	F C X Holdings Corporation
	2,174,781	

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) March 31, 2010

(Unaudited)

INDUSTRY CLASSIFICATION: (Continued)	Fair Value/ Market Value	
DIVERSIFIED/CONGLOMERATE,		ELECTRONICS - 0.53%
MANUFACTURING - 8.18%		Connecticut Electric, Inc.
A H C Holdings Company, Inc.	\$ 1,499,664	Directed Electronics, Inc.
Arrow Tru-Line Holdings, Inc.	803 , 977	
C D N T, Inc.	776,186	
Douglas Dynamics LLC	489,850	
Headwaters, Inc.	46,969	FINANCIAL SERVICES - 2.62%
K P I Holdings, Inc.	836,413	American General Finance C
MEGTEC Holdings, Inc.	1,093,163	Citigroup, Inc.
Milwaukee Gear Company	1,121,539	General Electric Capital C

Nortek, Inc.	111,726	Goldman Sachs Group, Inc.
Northwest Mailing Services, Inc.	1,391,230	Highgate Capital LLC
Postle Aluminum Company LLC	36,049	International Lease Financ
Truck Bodies & Equipment International	305,675	L B I Escrow Corporation
Xaloy Superior Holdings, Inc.	614,870	Morgan Stanley
	9,127,311	
DIVERSIFIED/CONGLOMERATE, SERVICE - 12.28%		HEALTHCARE, EDUCATION & CH
A S C Group, Inc.	1,357,838	American Hospice Managemen
A W X Holdings Corporation	766,284	F H S Holdings LLC
ACCO Brands Corporation	49,163	Qwest Diagnostic, Inc.
Advanced Technologies Holdings	1,326,341	Synteract Holdings Corpora
Affinia Group, Inc.	24,875	Touchstone Health Partners
Apex Analytix Holding Corporation	1,042,898	
C R H America, Inc.	532,601	
Clough, Harbour and Associates	1,438,990	
Crane Rental Corporation	1,303,064	HOME & OFFICE FURNISHINGS,
Diversco, Inc./DHI Holdings, Inc.	1,041,010	AND DURABLE CONSUMER PRODU
Dwyer Group, Inc.	796 , 772	Connor Sport Court Interna
Equifax, Inc.	513 , 187	H M Holding Company
Insurance Claims Management, Inc.	120,459	Home Decor Holding Company
Iron Mountain, Inc.	523 , 750	Justrite Manufacturing Acq
Mail Communications Group, Inc.	713,135	K H O F Holdings, Inc.
Nesco Holdings Corporation	1,451,784	Monessen Holding Corporati
Pearlman Enterprises, Inc.		Stanton Carpet Holding Co.
Tyco International Group	704,990	Transpac Holdings Company
		U M A Enterprises, Inc.
	13,707,141	U-Line Corporation
		Wellborn Forest Holding Co

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MassMutual Participation Investors CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED)

March 31, 2010 (Unaudited)

INDUSTRY CLASSIFICATION: (Continued)	Fair Value/ Market Value	
LEISURE, AMUSEMENT, ENTERTAINMENT - 2.09%		NATURAL RESOURCES - 1.86%
International Game Technology	\$ 566 , 320	Appleton Papers, Inc.
Savage Sports Holding, Inc.	1,486,462	Cenveo Corporation
Ticketmaster Entertainment, Inc.	278,750	CONSOL Energy, Inc.
		Cytec Industries, Inc.
	2,331,532	Intrepid Potash, Inc.
		The Valspar Corporation
MACHINERY - 9.20%		Verso Paper Holdings LLC
A S A P Industries LLC	661,876	
Davis-Standard LLC	1,426,938	
E S P Holdco, Inc.	1,173,024	
K-Tek Holdings Corporation	1,464,208	OIL & GAS - 1.84%
M V I Holding, Inc.	625 , 998	Coffeyville Resources LLC
Manitowoc Company, Inc.	99 , 750	International Offshore Ser
Navis Global	103,884	Total E & S, Inc.

NetShape Technologies, Inc.	628,341	
Pacific Consolidated Holdings LLC	612,732	
Power Services Holding Company	1,261,197	
R E I Delaware Holding, Inc.	1,368,009	PHARMACEUTICALS - 1.31%
Safety Speed Cut Manufacturing Company, Inc.	141,337	CorePharma LLC
Stewart & Stevenson LLC	707,434	
	10,274,728	
		PUBLISHING/PRINTING - 0.26
MEDICAL DEVICES/BIOTECH - 4.30%		Gannett Company, Inc.
Coeur, Inc.	723 , 765	Sheridan Acquisition Corpo
E X C Acquisition Corporation	103,878	
ETEX Corporation		
MedSystems Holdings LLC	766,157	
MicroGroup, Inc.	1,208,526	RETAIL STORES - 0.27%
OakRiver Technology, Inc.	634,819	Olympic Sales, Inc.
Precision Wire Holding Company	1,358,456	Rental Service Corporation
TherOX, Inc.		Rue21, Inc.
	4,795,601	
MINING, STEEL, IRON &		TECHNOLOGY - 2.94%
NON-PRECIOUS METALS - 2.40%		Advanced Micro Devices, In
Allegheny Technology, Inc.	581 , 761	Compucom Systems, Inc.
T H I Acquisition, Inc.	1,080,000	Sencore Holding Company
Teck Resources, Ltd.	36,750	Smart Source Holdings LLC
Tube City IMS Corporation	983,750	ViaSystems, Inc.
	2,682,261	

MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED)
March 31, 2010
(Unaudited)

INDUSTRY CLASSIFICATION: (Continued)	Fair Value/ Market Value	
TELECOMMUNICATIONS - 4.10% All Current Holding Company Centurytel, Inc. Intelsat Bermuda Ltd. ITC^DeltaCom, Inc. New Communications Holdings, Inc. Spirit Capital Corporation Sundance Investco LLC T W Telecom Holdings, Inc. Telecorps Holdings, Inc.	\$ 656,282 509,463 696,900 191,068 505,625 402,600 10,175 1,602,002	
TRANSPORTATION - 2.20% Avis Budget Car Rental LLC NABCO, Inc. Tangent Rail Corporation	4,574,115 41,800 165,441 2,252,542	

		2,459,783
UTILITIES - 0.03% Markwest Energy Operating Co.	\$	34,300
WASTE MANAGEMENT / POLLUTION - 1.62%		543,125
Terra Renewal LLC Torrent Group Holdings, Inc.		1,262,189
		1,805,314
Total Investments - 108.43%	\$ 1 ====	21,051,693

See Notes to Consolidated Financial Statements

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INCOME TAX INFORMATION

The aggregate cost of investments is substantially the same for financial reporting and federal income tax purposes as of March 31, 2010. The net unrealized depreciation of investments for financial reporting and federal tax purposes as of March 31, 2010 is \$18,761,439 and consists of \$10,198,296 appreciation and \$28,959,735 depreciation.

FAIR VALUE MEASUREMENTS

In accordance with the authoritative guidance on fair value measurements and disclosures under accounting principles generally accepted in the United States of America ("U.S. GAAP"), the Trust discloses the fair value of its investments in a hierarchy that prioritizes the inputs to valuation techniques used to measure the fair value. The hierarchy gives the highest priority to valuations based upon unadjusted quoted prices in active markets for identical assets or liabilities (level 1 measurement) and the lowest priority to valuations based upon unobservable inputs that are significant to the valuation (level 3 measurements). The guidance establishes three levels of the fair value hierarchy as follows:

- Level 1: quoted prices in active markets for identical securities
- Level 3: significant unobservable inputs (including the Trust's own assumptions in determining the fair value of investments)

The inputs and methodology used for valuing securities are not necessarily an indication of the risk associated with investing in those securities.

The following is a summary of the inputs used to value the Trust's net assets as of March 31, 2010:

ASSETS:	TOTAL	LEVEL 1	LEVEL 2	LEVEL 3
Restricted Securities				
Bonds	\$ 86,464,525	\$	\$ 4,202,113	\$82,262,412
Common Stock	7,822,943			7,822,943

Preferred Stock	3,738,173			3,738,173
Partnerships and LLCs	3,873,762			3,873,762
Public Securities				
Bonds	16,329,914		16,329,914	
Common Stock	622,441	618,441	4,000	
Preferred Stock				
Short-term Securities	2,199,934		2,199,934	
Total	\$121,051,692	\$ 618,441	\$22,735,961	\$97,697,290

Following is a reconciliation of Level 3 assets for which significant unobservable inputs were used to determine fair value:

Assets:	Beginning balance at 12/31/2009	Total gains or losses (realized/ unrealized)	Purchases, sales, issuances & settlements (net)	s Transfers in and/or out of Level 3
Restricted Securities				
Bonds	\$81,465,949	\$ (685,514)	\$1,937,878	\$ (455,900)
Common Stock	7,767,378	(313,762)	369,326	
Preferred Stock	3,468,130	268,791	1,252	
Partnerships and LLCs	3,536,247	323,084	14,431	
	\$96,237,704	\$ (407,401)	\$2,322,887	\$ (455,900)

ITEM 2. CONTROLS AND PROCEDURES.

- (a) The principal executive officer and principal financial officer of the Registrant evaluated the effectiveness of the Registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940 (the "Act") as of a date within 90 days of the filing date of this report and based on that evaluation have concluded that such disclosure controls and procedures are effective to provide reasonable assurance that material information required to be disclosed by the Registrant on Form N-Q is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms.
- (b) There were no changes in the Registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the Act) that occurred during the Registrant's last fiscal quarter that has materially affected, or are reasonably likely to materially affect, the Registrant's internal control over financial reporting.

ITEM 3. EXHIBITS.

Certifications pursuant to Rule 30a-2(a) under the Investment Company Act of 1940 (17 CFR 270.30a-2(a)) are attached hereto as an exhibit.

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.

(Registrant) MassMutual Pa	articipation Investors
By (Signature and Title)*	/s/ Michael L. Klofas
	Michael L. Klofas, President
Date May 28, 2010	
Investment Company Act of	nts of the Securities Exchange Act of 1934 and the 1940, this report has been signed below by the Lf of the Registrant and in the capacities and on th
By (Signature and Title)*	/s/ Michael L. Klofas
	Michael L. Klofas, President
Date May 28, 2010	
By (Signature and Title)*	/s/ James M. Roy
	James M. Roy, Vice President and Chief Financial Officer
Date May 28, 2010	

^{*} PRINT THE NAME AND TITLE OF EACH SIGNING OFFICER UNDER HIS OR HER SIGNATURE.