## MASSMUTUAL PARTICIPATION INVESTORS

Form N-Q

November 29, 2010

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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, Secretary and Chief Legal Officer 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: 09/30/10

(Unaudited)

	Principal Amount Shares, Units or Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES - 88.56%: (A)	Percentage	Date 
PRIVATE PLACEMENT INVESTMENTS - 85.66%		
A E COMPANY, INC. A designer and manufacturer of machined parts and assembly stru 11% Senior Secured Note due 2015	ctures for the commer \$ 807,692	cial and mili *
13% Senior Subordinated Note due 2016	\$ 807,693	11/10/09
Common Stock (B)	184,615 shs.	11/10/09
Warrant, exercisable until 2019, to purchase 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 15% Senior Subordinated Note due 2015	e commercial sector. \$ 1,342,450	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)	al 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 equicomponents primarily for the military and aerospace sectors.		
12.75% Senior Subordinated Note due 2016	\$ 1,227,273	10/09/09
Limited Liability Company Unit Class A (B) Limited Liability Company Unit Class B (B)	1,249 uts. 1,473 uts.	10/09/09 10/09/09
A W X HOLDINGS CORPORATION A provider of aerial equipment rental, sales and repair service operating in the State of Indiana.  10.5% Senior Secured Term Note due 2014 (D)  13% Senior Subordinated Note due 2015 (D)  Common Stock (B)  Warrant, exercisable until 2015, to purchase common stock at \$.01 per share (B)	s to non-residential \$ 420,000 \$ 420,000 60,000 shs. 21,099 shs.	construction 05/15/08 05/15/08 05/15/08 05/15/08

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September 30, 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 15% Senior Subordinated Note due 2013 Preferred Stock (B)		12/27/07 12/27/07
AERO HOLDINGS, INC. A provider of geospatial services to corporate and government 10.5% Senior Secured Term Note due 2014 14% Senior Subordinated Note due 2015	clients. \$ 930,000 \$ 720,000	03/09/07 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 servin \$ 603,697 713 shs. 507 shs.	g 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 Preferred Class A Unit (B) Preferred Class B Unit (B) Common Class B Unit (B) Common Class D Unit (B)	\$ 1,687,503 1,706 uts. 808 uts. 16,100 uts. 3,690 uts.	* ** 06/09/08 01/22/04 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 Preferred Stock Series B (B) Common Stock (B)	software to commercia \$ 1,012,500 1,623 shs. 723 shs.	l and retail b 04/28/09 04/28/09 04/28/09

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CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 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 overhead garage doors in North America. \$ 984,209 05/18/05 12% Senior Subordinated Note due 2012 33 shs. 10/16/09 263 shs. 05/18/05 Preferred Stock (B) Common Stock (B) Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B) 69 shs. 05/18/05 ASSOCIATED DIVERSIFIED SERVICES A provider of routine maintenance and repair services primarily to electric utility companies pre distribution lines. \$ 323,700 \$ 296,180 10% Senior Secured Term Note due 2016 (C) 09/30/10 09/30/10 13% Senior Subordinated Note due 2017 Limited Liability Company Unit Class B (B) 36,000 uts. 09/30/10 Limited Liability Company Unit Class B OID (B) 27,520 uts. 09/30/10 BARCODES GROUP, INC. A distibutor and reseller of automatic identification and data capture equipment, including mobil point-of-sale systems, labels, and accessories. 13.5% Senior Subordinated Note due 2016 \$ 638,651 07/27/10 Preferred Stock (B) 13 shs. 07/27/10 Common Stock Class A (B) 44 shs. 07/27/10 Warrant, exercisable until 2020, to purchase common stock at \$.01 per share (B) 8 shs. 07/27/10 BRAVO SPORTS HOLDING CORPORATION A designer and marketer of niche branded consumer products including canopies, trampolines, in-li urethane wheels.

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.

0 B N 1, 1NO.		
$\ensuremath{\mathtt{A}}$ value-added converter and distributor of specialty pressure	sensitive adhesives,	foams, films,
10.5% Senior Secured Term Note due 2014	\$ 377,112	08/07/08
12.5% Senior Subordinated Note due 2015	\$ 429,070	08/07/08
Common Stock (B)	41,860 shs.	08/07/08
Warrant, exercisable until 2018, to purchase		
common stock at \$.01 per share (B)	32,914 shs.	08/07/08

MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010 (Unaudited)

	Principal Amount Shares, Units or Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Percentage	Date
CAPITAL SPECIALTY PLASTICS, INC. A producer of desiccant strips used for packaging pharmaceutic. 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
COEUR, INC. A producer of proprietary, disposable power injection syringes 12% Senior Subordinated Note due 2016 Common Stock (B) Warrant, exercisable until 2018, to purchase common stock at \$.01 per share (B)	\$ 642,857 321 shs. 495 shs.	10/10/08 10/10/08 10/10/08
CONNECTICUT ELECTRIC, INC. A supplier and distributor of electrical products sold into the 10% Senior Subordinated Note due 2014 (D) Limited Liability Company Unit Class A (B) Limited Liability Company Unit Class C (B) Limited Liability Company Unit Class D (B) Limited Liability Company Unit Class E (B)	e retail and wholesal \$ 771,051 82,613 uts. 59,756 uts. 671,525 uts. 1,102 uts.	e markets. 01/12/07 01/12/07 01/12/07 05/03/10 05/03/10
CONNOR SPORT COURT INTERNATIONAL, INC.  A designer and manufacturer of outdoor and indoor synthetic sp Preferred Stock Series B-2 (B) Preferred Stock Series C (B) Common Stock (B) Limited Partnership Interest (B)	orts flooring and oth 9,081 shs. 4,757 shs. 380 shs. 6.88% int.	er temporary f 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 12% Senior Subordinated Note due 2013	t niche applications. \$ 1,350,000	08/04/05
Warrant, exercisable until 2013, to purchase common stock at \$.001 per share (B)	10 shs.	08/04/05

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CONSOLIDATED SC	HEDULE OF	INVESTMENTS	(CONTINUED)
September 30, 2	010		
(Unaudited)			

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date
CRANE RENTAL CORPORATION		
A crane rental company.		
13% Senior Subordinated Note due 2015	\$ 1,215,000	08/21/08
Common Stock (B)	135,000 shs.	
Warrant, exercisable until 2016, to purchase		
common stock at \$.01 per share (B)	72,037 shs.	08/21/08
CUSTOM ENGINEERED WHEELS, INC.		
A manufacturer of custom engineered, non-pneumatic plastic who products and wheelchairs.	eels and plastic trea	d cap tires use
12.5% Senior Subordinated Note due 2016	\$ 1,155,288	10/27/09
Preferred Stock PIK (B)	156 shs.	10/27/09
Preferred Stock Series A (B)	114 shs.	10/27/09
Common Stock (B)	38 shs.	
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 processing of plastic materials.	capital equipment tha	t is used in th
12% Senior Subordinated Note due 2014	\$ 978 <b>,</b> 261	10/30/06
Limited Partnership Interest (B)	0.97% int.	
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 services and temporary production lab Membership Interests of MM/Lincap

Diversco Investments Ltd. LLC (B)	13.57% int.	08/27/98
Warrants, exercisable until 2011, to purchase common		
stock of DHI Holdings, Inc. at \$.01 per share (B)	6,676 shs.	*

<sup>\*10/24/96</sup> and 08/28/98.

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CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010 (Unaudited)

	Principal Amount Shares, Units or Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Percentage	Date
THE THE THE TWO		
DUNCAN SYSTEMS, INC. A distributor of windshields and side glass for the recreation	anal wahicle 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	,	, _ ,
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.		
E S P HOLDCO, INC.		
A manufacturer of power protection technology for commercial network.	office equipment, pri	imarily supplyin
14% Senior Subordinated Note due 2015	\$ 1,241,169	01/08/08
Common Stock (B)		
,	349 shs.	01/08/08
E X C ACQUISITION CORPORATION  A manufacturer of pre-filled syringes and pump systems used in		
E X C ACQUISITION CORPORATION		
E X C ACQUISITION CORPORATION A manufacturer of pre-filled syringes and pump systems used to		
E X C ACQUISITION CORPORATION  A manufacturer of pre-filled syringes and pump systems used to Warrant, exercisable until 2014, to purchase	for intravenous drug (	delivery.
E X C ACQUISITION CORPORATION  A manufacturer of pre-filled syringes and pump systems used to the syringes are syringes and pump systems used to the syringes are syringes and pump systems used to the syringes are syringes and pump systems used to the syringes are syringes are syringes.	for intravenous drug o	delivery. 06/28/04
E X C ACQUISITION CORPORATION  A manufacturer of pre-filled syringes and pump systems used to warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)  EATEM HOLDING COMPANY  A developer and manufacturer of savory flavor systems for sour for retail and foodservice end products.	for intravenous drug of 11 shs. ups, sauces, gravies,	delivery. 06/28/04 and other produ
E X C ACQUISITION CORPORATION A manufacturer of pre-filled syringes and pump systems used to warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)  EATEM HOLDING COMPANY A developer and manufacturer of savory flavor systems for some for retail and foodservice end products.  12.5% Senior Subordinated Note due 2018	for intravenous drug of 11 shs.  ups, sauces, gravies,  \$ 950,000	delivery. $06/28/04$ and other produ $02/01/10$
E X C ACQUISITION CORPORATION A manufacturer of pre-filled syringes and pump systems used to warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)  EATEM HOLDING COMPANY A developer and manufacturer of savory flavor systems for some for retail and foodservice end products.  12.5% Senior Subordinated Note due 2018 Common Stock (B)	for intravenous drug of 11 shs. ups, sauces, gravies,	delivery. 06/28/04 and other produ
E X C ACQUISITION CORPORATION A manufacturer of pre-filled syringes and pump systems used to warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)  EATEM HOLDING COMPANY A developer and manufacturer of savory flavor systems for soft for retail and foodservice end products.  12.5% Senior Subordinated Note due 2018	for intravenous drug of 11 shs.  ups, sauces, gravies,  \$ 950,000	delivery. $06/28/04$ and other produ $02/01/10$
E X C ACQUISITION CORPORATION A manufacturer of pre-filled syringes and pump systems used to warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)  EATEM HOLDING COMPANY A developer and manufacturer of savory flavor systems for soft for retail and foodservice end products.  12.5% Senior Subordinated Note due 2018 Common Stock (B) Warrant, exercisable until 2018, to purchase	for intravenous drug of 11 shs.  ups, sauces, gravies,  \$ 950,000  50 shs.  119 shs.	06/28/04  and other produ 02/01/10 02/01/10

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010 (Unaudited)

	Principal Amount Shares, Units or Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Percentage	Date
F F C HOLDING CORPORATION A leading U.S. manufacturer of private label frozen novelty and 16% Senior Subordinated Note due 2014 Limited Liability Company Units Preferred (B) Limited Liability Company Units (B)	d ice cream products \$ 829,268 171 uts. 171 uts.	. 09/27/10 09/27/10 09/27/10
F H S HOLDINGS LLC A national provider of customized disease management services 12% Senior Subordinated Note due 2014 (D) Limited Liability Company Units of Linden/FHS Holdings LLC (B) Common Unit Class B (B)	\$ 1,265,625	d employers. 06/01/06 06/01/06 06/01/06
FLUTES, INC. An independent manufacturer of micro fluted corrugated sheet m 10% Senior Secured Term Note due 2013 (D) 14% Senior Subordinated Note due 2014 (D)	aterial for the food \$ 524,791 \$ 317,177	and consumer p 04/13/06 04/13/06
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 \$ 250,259 77,643 shs.	11/01/07 12/31/08 11/01/07
H M HOLDING COMPANY A designer, manufacturer, and importer of promotional and wood 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)	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 manufactories A Preferred Units (B)	turing and marketing 0.30% int.	entities. 07/21/94

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MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010 (Unaudited)

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date
CONFORME RESTRICTED SECONTILES. (II) (CONCINECA)		
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	* *
* 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
<pre>INSURANCE CLAIMS MANAGEMENT, INC. A third party administrator providing auto and property claim Common Stock (B) Warrant, exercisable until 2011, to purchase   common stock at \$.01 per share (B)</pre>	m administration ser 37 shs. 11 shs.	ovices for insuran 02/27/07 02/27/07
INTERNATIONAL OFFSHORE SERVICES LLC A leading provider of marine transportation services, platfor shallow waters of the Gulf of Mexico. 14.25% Senior Subordinated Secured Note due 2017 Limited Liability Company Unit (B)	rm decomissioning, a \$ 1,350,000 1,647 uts.	and salvage servic 07/07/09 07/07/09
JASON, INC. A diversified manufacturing company serving various industrial 13% Senior Subordinated Note due 2010 (D) Limited Partnership Interest of Saw Mill Capital Fund II, L.P. (B)	al markets. \$ 510,187 1.30% int.	08/04/00 08/03/00
JUSTRITE MANUFACTURING ACQUISITION CO.  A manufacturer of safety products such as storage cabinets and 12% Senior Subordinated Note due 2011  Warrant, exercisable until 2011, to purchase common stock at \$.01 per share (B)	nd containers. \$ 843,750 594 shs.	12/15/04 12/15/04

CONSOLIDATED	SCHEDULE	OF	INVESTMENTS	(CONTINUED)
September 30,	2010			
(Unaudited)				

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date
K H O F HOLDINGS, INC.		
A manufacturer of premium disposable tableware products servi	ng both the foodservi	ce and consumer
Common Stock (B)	116,827 shs.	10/15/07
K N B HOLDINGS CORPORATION  A designer, manufacturer and marketer of products for the cus 15.5% Senior Subordinated Note due 2013 (D)  Common Stock (B)  Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)	stom framing market. \$ 1,595,057 71,053 shs. 43,600 shs.	
K P I HOLDINGS, INC. The largest player in the U.S. non-automotive, non-ferrous di 18% Senior Subordinated Note due 2014 (D) Convertible Preferred Stock Series C (B) Convertible Preferred Stock Series D (B) Common Stock (B) Warrant, exercisable until 2018, to purchase	\$ 1,115,217 29 shs. 13 shs. 235 shs.	07/16/08 06/30/09 09/17/09 07/15/08
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 throughout the northwestern Unite

\$ 1,555,404	03/14/07
123 shs.	03/13/07
71 shs.	07/07/09
89 shs.	03/14/07
	123 shs. 71 shs.

L H D EUROPE HOLDINGS, INC.
A non-carbonated beverage dispensing company focused on the foodservice industry.
45 shs. 12/28/09

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MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010 (Unaudited)

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

	Principal Amount Shares, Units	
	or Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Percentage	Date
M V I HOLDING, INC.		
A manufacturer of large precision machined metal component the oil and gas, mining, and defense markets.	s used in equipment whi	ch services a va
13% Senior Subordinated Note due 2016	\$ 656,154	09/12/08
Common Stock (B)	32 shs.	09/12/08
Warrant, exercisable until 2018, to purchase		
common stock at \$.01 per share (B)	35 shs.	09/12/08
MAIL COMMUNICATIONS GROUP, INC.		
A provider of mail processing and handling services, lette	_	
12.5% Senior Subordinated Note due 2014 Limited Liability Company Unit (B)	\$ 516,177 12,763 uts.	05/04/07
Warrant, exercisable until 2014, to purchase	12,763 des.	
common stock at \$.01 per share (B)	1,787 shs.	05/04/07
	_,	,,
* 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	wine bottles.	
6.79% Senior Secured Tranche A Note due 2011 (C)	\$ 81,741	09/03/04
12.5% Senior Secured Tranche B Note due 2011	\$ 179 <b>,</b> 104	09/03/04
6.79% Senior Secured Revolver due 2011 (C)	\$ 44,777	09/03/04
Limited Partnership Interest (B)	4.48% int.	09/03/04
Warrant, exercisable until 2011, to purchase		
common stock at \$.01 per share (B)	243 shs.	09/03/04
MBWS ULTIMATE HOLDCO, INC. A provider of services throughout North Dakota that addres	us the fluid management	and rolated too
12% Senior Subordinated Note due 2016	\$ 883,721	09/07/10
Preferred Stock Series A (B)	1,388 shs.	09/07/10
Common Stock (B)	153 shs.	09/07/10
Warrant, exercisable until 2016, to purchase	100 0110.	00,01,10
common stock at \$ 01 per share (P)	306 chc	09/07/10

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386 shs. 09/07/10

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010 (Unaudited)

Limited Partnership Interest (B)

common stock at \$.02 per share (B)

Warrant, exercisable until 2014, to purchase

	Principal Amount Shares, Units or Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Percentage	Date
MEDSYSTEMS HOLDINGS LLC A manufacturer of enteral feeding products, such as feed	ling tubes and other produ	cts related to
13% Senior Subordinated Note due 2015	\$ 620,676	
Preferred Unit (B)	66 uts.	08/29/08
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	1	
12% Senior Subordinated Note due 2016	\$ 1,144,068	
Preferred Stock (B)	56 shs.	09/24/08
Limited Partnership Interest (B)	0.74% int.	09/16/08
Warrant, exercisable until 2018, to purchase	10.	00/04/00
common stock at \$.01 per share (B)	18 shs.	09/24/08
MICROGROUP, INC.  A manufacturer of precision parts and assemblies, and a 12% Senior Subordinated Note due 2013 (D)  Common Stock (B)  Warrant, exercisable until 2013, to purchase common stock at \$.02 per share (B)	value-added supplier of m \$ 1,421,795 238 shs. 87 shs.	etal tubing and * * *
•	07 3113.	
* 08/12/05 and 09/11/06.		
MILWAUKEE GEAR COMPANY A manufacturer of high-precision custom gears and gear of	drives used by original os	uinmont manufact
industries.	niives used by oliginal eq	uipment manuiac
13% Senior Subordinated Note due 2014	\$ 1,246,154	07/21/08
Preferred Stock (B)	139 shs.	07/21/08
Common Stock (B)	9 shs.	07/21/08
Warrant, exercisable until 2014, to purchase		
common stock at \$.01 per share (B)	6 shs.	07/21/08
MOMENTUM HOLDING CO.		
A designer and supplier of upholstery fabric to commercial	al furniture manufacturer	

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11.24% int. 08/04/06

586 shs. 08/04/06

MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010 (Unaudited)

Warrant, exercisable until 2014, to purchase

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

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date
MONESSEN HOLDING CORPORATION		
A designer and manufacturer of a broad line of gas, wood, and	electric hearth pro	ducts and access
14% Senior Subordinated Note due 2014 (D)	\$ 1,350,000	07/25/08
14% PIK Note due 2014 (D)	\$ 419,713	07/25/08
Warrant, exercisable until 2014, to purchase	24 1	00/01/06
common stock at \$.02 per share (B)	81 shs.	03/31/06
NABCO, INC.		
A producer of explosive containment vessels in the United State		
14% Senior Subordinated Note due 2014 (D)	\$ 330,882	02/24/06
Limited Liability Company Unit (B)	437 uts.	*
Warrant, exercisable until 2016, to purchase		22/24/26
common stock at \$.01 per share (B)	68 shs.	02/24/06
* 02/24/06 and 06/22/07.		
NAVIS GLOBAL		
A designer, manufacturer, seller and servicer of finishing made	chinery for the knit	and woven segme
10.75% Senior Secured Note due 2011 (D)	\$ 397,479	05/28/04
14% Senior Subordinated Note due 2014 (D)	\$ 780,219	05/28/04
NESCO HOLDINGS CORPORATION		
A sales and leasing company that provides equipment to the ele	_	communications,
12% Senior Secured Subordinated Note due 2015	\$ 1,125,000	08/02/07
Common Stock (B)	225,000 shs.	08/02/07
Warrant, exercisable until 2015, to purchase		
common stock at \$.01 per share (B)	63,191 shs.	08/02/07
NETSHAPE TECHNOLOGIES, INC.		
A manufacturer of powder metal and metal injection molded pred	cision components us	ed in industrial
12% Senior Subordinated Note due 2014	\$ 810,000	02/02/07
Limited Partnership Interest of	•	
Saw Mill PCG Partners LLC (B)	1.38% int.	02/01/07
Limited Liability Company Unit Class D of		
Saw Mill PCG Partners LLC (B)	8 uts.	*
Limited Liability Company Unit Class D-1 of		
Saw Mill PCG Partners LLC (B)	65 uts.	09/30/09
Preferred Stock Class A (B)	1 sh.	12/18/08
Preferred Stock Class A-1 (B)	6 shs.	09/30/09
Warrant overgisable until 2014 to nurchase		

48 shs. 02/02/07

\* 12/18/08 and 09/30/09.

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CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010 (Unaudited)

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date 
NORTHWEST MAILING SERVICES, INC. A producer of promotional materials for companies that use d 12% Senior Subordinated Note due 2016 Limited Partnership Interest (B)	irect mail as part of \$ 1,492,105 1,724 uts.	their customer * *
Warrant, exercisable until 2019, to purchase common stock at \$.01 per share (B)	2,605 shs.	*
* 07/09/09 and 08/09/10.		
NYLONCRAFT, INC. A supplier of engineered plastic components for the automoti		
10% Senior Secured Note due 2012	\$ 464,286	01/28/02
15% Senior Subordinated Note due 2012 (D)	\$ 285,714	01/28/02
Convertible Preferred Stock A (B)	571 shs.	01/28/02
Common Stock (B)	178,571 shs.	01/28/02
Warrant, exercisable until 2012, to purchase		
common stock at \$.01 per share (B)	138,928 shs.	01/28/02
O E C HOLDING CORPORATION A provider of elevator maintenance, repair and modernization 13% Senior Subordinated Note due 2017 Preferred Stock Series A (B) Preferred Stock Series B (B) Common Stock (B)	services. \$ 444,445 554 shs. 311 shs. 344 shs.	06/04/10 06/04/10 06/04/10 06/04/10
OAKRIVER TECHNOLOGY, INC.  Designs, engineers and assembles high precision automated pr defibrilators and stents.	ocess equipment for th	e medical devid
10% Senior Secured Note due 2012	\$ 45 <b>,</b> 982	01/03/06
13% Senior Subordinated Note due 2013	\$ 392,709	01/03/06
Common Stock (B)	184,176 shs.	01/03/06
Warrant, exercisable until 2013, to purchase	101,170 5110.	01/03/00
common stock at \$.01 per share (B)	43,073 shs.	01/03/06
OLYMPIC SALES, INC. A boat retailer in Washington state, Oregon, California and 12% Senior Subordinated Note due 2010 (D)	British Columbia. \$ 511,000	08/07/98
12% Senior Subordinated Note due 2010 (D)	\$ 244,154	02/09/00

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CONSOLIDATED SCHEDULE OF INVESTMENTS (CONSSeptember 30, 2010 (Unaudited)	MassMutual Participation Investors	
CORPORATE RESTRICTED SECURITIES: (A) (Contin	Principal Amount Shares, Units or Ownership nued) Percentage	Acquisition Date
ONTARIO DRIVE & GEAR LTD.  A manufacturer of all-wheel drive, off-roal Limited Liability Company Unit (B)  Warrant, exercisable until 2013, to purcha	1,942 uts.	
common stock at \$.01 per share (B)	328 shs.	01/17/06
P A S HOLDCO LLC An independent provider of maintenance, re 14% Senior Subordinated Note due 2014 Preferred Unit (B) Preferred Unit (B) Common Unit Class I (B) Common Unit Class L (B)	epair and overhaul services to the aerosp \$ 1,249,031 202 uts. 36 uts. 78 uts. 17 uts.	ace gas turbine 07/03/06 07/03/06 07/03/06 07/03/06 07/03/06
P I I HOLDING CORPORATION A manufacturer of plastic film and bags for 12% Senior Subordinated Note due 2013 Preferred Stock (B) Common Stock (B) Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)	\$ 1,215,000 19 shs. 12 shs.	ood industries 03/31/06 03/31/06 03/31/06
PACIFIC CONSOLIDATED HOLDINGS LLC A manufacturer of rugged, mobile liquid ar and medical sectors.  14% Senior Subordinated Note due 2012 5% Senior Subordinated Note due 2012 Preferred Shares Series E (B) Limited Liability Preferred Unit (B)	nd gaseous oxygen and nitrogen generating \$ 719,041 \$ 42,187 42,187 shs. 928,962 uts.	systems used  04/27/07  07/21/10  07/21/10  04/27/07

#### PARADIGM PACKAGING, INC.

A manufacturer of plastic bottles and closures for the nutritional, pharmaceutical, personal care 12% Senior Subordinated Note due 2011 \$ 1,125,000 12/19/00 Membership Interests of MM/Lincap PPI Investments, Inc., LLC (B) 1.28% int. 12/21/00

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CONSOLIDATED	SCHEDULE	OF	INVESTMENTS	(CONTINUED)
September 30,	2010			
(Unaudited)				

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date 
PEARLMAN ENTERPRISES, INC.  A developer and distributor of tools, equipment and supplies Preferred Stock Series A (B) Preferred Stock Series B (B) Common Stock (B)	to the natural and en 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 products 15% Senior Subordinated Note due 2013 3% Senior Subordinated PIK Note due 2014 (D) Limited Liability Company Unit Class A (B) Limited Liability Company Unit (B) Warrant, exercisable until 2016, to purchase common stock at \$.01 per share (B)	\$ 817,979 \$ 1,209,017 733 uts. 76 uts.	06/03/10 10/02/06 10/02/06 05/22/09 10/02/06
POWER SERVICES HOLDING COMPANY A provider of industrial motor repair services, predictive as serving the petrochemical, mining, power generation, metals, 12% Senior Subordinated Note due 2016 Limited Partnership Interest (B) Warrant, exercisable until 2016, to purchase common stock at \$.01 per share (B)	and paper industries.	02/11/08 02/11/08
PRECISION WIRE HOLDING COMPANY A manufacturer of specialty medical wires that are used in no 14.25% Senior Subordinated Note due 2016 Warrant, exercisable until 2019, to purchase common stock at \$.01 per share (B)	on-elective minimally \$ 1,368,089 109 shs.	11/12/09
QUALIS AUTOMOTIVE LLC A distributor of aftermarket automotive brake and chassis pro 13% Senior Subordinated Note due 2013 Common Stock (B) Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	oducts. \$ 922,612 187,500 shs. 199,969 shs.	05/28/04 05/28/04 05/28/04

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MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED)
September 30, 2010
(Unaudited)

	Principal Amount Shares, Units	
	or Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Percentage	Date
R A J MANUFACTURING HOLDINGS LLC A designer and manufacturer of women's swimwear sold under a 14.5% Senior Subordinated Note due 2014 Limited Liability Company Unit (B) Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	variety of licensed : \$ 1,384,011	12/15/06 12/15/06
R E I DELAWARE HOLDING, INC. An engineer and manufacturer of highly complex, close tolerar equipment primarily for aerospace, medical and defense/radar 12% Senior Subordinated Note due 2016 Warrant, exercisable until 2018, to purchase common stock at \$.01 per share (B)		blies, 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)	<pre>bathroom products. \$ 562,500 74 shs.</pre>	11/14/03 11/14/03
SAFETY SPEED CUT MANUFACTURING COMPANY, INC.  A manufacturer of vertical panel saws and routers for the wood Class B Common Stock (B)	odworking industry. 846 shs.	06/02/99
SAVAGE SPORTS HOLDING, INC.		
A manufacturer of sporting firearms.		
12% Senior Subordinated Note due 2012	\$ 814,655	09/10/04
Preferred Stock Series A (B)	35,038 shs.	05/28/10
Common Stock (B)	324 shs.	*
Warrant, exercisable until 2012, to purchase		

<sup>\* 09/10/04</sup> and 10/05/07.

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

#### SENCORE HOLDING COMPANY

A designer, manufacturer, and marketer of decoders, receivers and modulators sold to broadcasters operators for encoding/decoding analog and digital transmission video signals.

12.5% Senior Subordinated Note due 2014 \$ 934,615 01/15/09 Common Stock (B) 69 shs. 01/15/09

71 shs. 09/10/04

Warrant, exercisable until 2019, to purchase common stock at \$.01 per share (B)

149 shs. 01/15/09

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010

(Unaudited)

SYNTERACT HOLDINGS CORPORATION

14.5% Senior Subordinated Note due 2016

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date
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)  * 08/31/07 and 03/06/08.	\$ 1,176,924 328 uts. 83 shs.	* *
SPARTAN FOODS HOLDING COMPANY A manufacturer of branded pizza crusts and pancakes. 12.25% 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)	\$ 1,220,311 15,882 shs. 5,852 shs.	10/23/08 10/23/08 10/23/08
STANTON CARPET HOLDING CO.  A designer and marketer of high and mid-priced decorative control of the second	arpets and rugs. \$ 1,185,366 165 shs. 55 shs.	08/01/06 08/01/06 08/01/06
SUNDANCE INVESTCO LLC A provider of post-production services to producers of movidimited Liability Company Unit Class A (B)	es and television shows. 3,405 shs.	. 03/31/10

A provider of outsourced clinical trial management services to pharmaceutical and biotechnology of

\$ 1,381,270

Redeemable Preferred Stock Series A (B)	678 shs.	09/02/08
Warrant, exercisable until 2018, to purchase		
common stock at \$.01 per share (B)	6,778 shs.	09/02/08

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MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010

Warrant, exercisable until 2016, to purchase

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

(Unaudited)

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date
T H I ACQUISITION, INC.  A machine servicing company providing value-added steel servi	ces to long steel nr	oduct s
12% Senior Subordinated Note due 2016	\$ 1,350,000	01/14/08

TELECORPS HOLDINGS, INC.

A provider of equipment and services to producers of television shows and motion pictures. 12.75% Senior Subordinated Note due 2016 \$ 1,681,677 143 shs. 09/02/09 Common Stock (B) Warrant, exercisable until 2019, to purchase common stock at \$.01 per share (B) 4,187 shs.

#### TERRA RENEWAL LLC

A provider of wastewater residual management and required environmental reporting, permitting, nu and record keeping to companies involved in poultry and food processing. 12% Senior Subordinated Note due 2014 \$ 664,062 6.79% Term Note due 2012 (C) \$ 779,834 8.75% Term Note due 2012 (C) \$ 830 Limited Partnership Interest of 2.27% int. Saw Mill Capital Fund V, LLC (B)

Warrant, exercisable until 2016, to purchase 41 shs. 04/28/06 common stock at \$.01 per share (B)

#### TORRENT GROUP HOLDINGS, INC.

A contractor specializing in the sales and installation of engineered drywells for the retention nuisance water flow

nuisance water flow.		
14.5% Senior Subordinated Note due 2013 (D)	\$ 1,185,366	10/26/07
Series B Preferred Stock (B)	97 shs.	03/31/10
Common Stock (B)	273 shs.	03/31/10

TOTAL E & S, INC.

5 shs. 01/14/08

<sup>\* 05/20/09</sup> and 09/02/09.

<sup>\* 04/28/06</sup> and 09/13/06. \*\* 03/01/05 and 10/10/08.

A manufacturer of a wide variety of equipment used in the oil	l and gas	industry.	
10.5% Senior Secured Term Note due 2013	\$	486,487	03/02/07
13% Senior Subordinated Note due 2014 (D)	\$	341 <b>,</b> 971	03/02/07

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Principal Amount

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010 (Unaudited)

		es, Units Ownership	-		
CORPORATE RESTRICTED SECURITIES: (A) (Continued)		ercentage 	Date 		
TRANSPAC HOLDING COMPANY					
A designer, importer, and wholesaler of home decor and seasonal	-	-			
14% Senior Subordinated Note due 2015 (D)	\$	938 <b>,</b> 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 Common Stock (B) Warrant, exercisable until 2013, to purchase common stock at \$.02 per share (B)	\$	918,000 571 shs. 46 shs.	08/31/05 * 08/31/05		
* 08/31/05 and 04/30/07.					
TRANZONIC COMPANIES (THE) A producer of commercial and industrial supplies, such as safety supplies and sanitary care products.	pro	ducts, janitorial	. 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 duty trucks, primarily dump bodie bodies, landscape bodies and other accessories.

8% Senior Subordinated Note due 2011 (D)	\$ 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

<sup>\* 07/19/05</sup> and 12/22/05.

TRUSTILE DOORS, INC.

A manufacturer and distributor of interior doors.

Warrant, exercisable until 2013, to purchase

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

3,060 shs. 04/11/03

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MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010

(Unaudited)

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date	
U M A ENTERPRISES, INC. An importer and wholesaler of home decor products. 15% Senior Subordinated Note due 2015 Convertible Preferred Stock (B)	\$ 952,932 470 shs.	02/08/08 02/08/08	
U-LINE CORPORATION  A manufacturer of high-end, built-in, undercounter ice making, 14.5% Senior Subordinated Note due 2012 14.5% PIK Note due 2012 Common Stock (B) Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)	wine storage and r \$ 996,500 \$ 221,640 96 shs. 122 shs.	efrigeration app 04/30/04 10/06/09 04/30/04	
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 Convertible 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.	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  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 b \$ 89,626 \$ 450,000 406,525 uts. 450,000 uts. 383,011 uts. 96,848 uts.	ags.  10/29/09 06/30/07 10/29/09 10/29/09 * 07/19/04	

<sup>\*</sup> 07/19/04 and 10/29/09.

WELLBORN FOREST HOLDING CO.

A manufacturer of semi-custom kitchen and bath cabinetry.

14.13% Senior Subordinated Note due 2014	\$ 911,250	11/30/06
Common Stock (B)	101 shs.	11/30/06
Warrant, exercisable until 2014, to purchase		
common stock at \$.01 per share (B)	51 shs.	11/30/06

MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010

(Unaudited)

Principal Amount				
	Shares, Units			
	or Ownership	Acquisition		
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Percentage	Date		
WHEATON HOLDING CORPORATION A distrtibutor and manufacturer of laboratory supply produc	ts and packaging.			
13% Senior Subordinated Note due 2017	\$ 1,000,000	06/08/10		
Preferred Stock Series B (B)	703 shs.	06/08/10		
Common Stock (B)	353 shs.	06/08/10		

WORKPLACE MEDIA HOLDING CO.

A direct marketer specializing in providing advertisers with access to consumers in the workplace 13% Senior Subordinated Note due 2015 (D) \$ 613,692 05/14/07 12.26% int. 05/14/07 Limited Partnership Interest (B) Warrant, exercisable until 2015, to purchase 47 shs. common stock at \$.02 per share (B) 05/14/07

XALOY SUPERIOR HOLDINGS, INC.

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

TOTAL PRIVATE PLACEMENT INVESTMENTS (E)

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MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010

(Unaudited)

Shares or Interest Due Principal

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Rate	Date	Amount	Cost	
RULE 144A SECURITIES - 2.90%:					
BONDS - 2.90%					
Appleton Papers, Inc.	11.250%	12/15/15		\$ 250,00	
ArcelorMittal	6.125	06/01/18	500,000	519,17	
C C O Holdings LLC	7.250	10/30/17		350,00	
Cenveo Corporation	10.500	08/15/16	45,000		
Coffeyville Resources LLC	9.000	04/01/15			
CompuCom Systems, Inc.	12.500	10/01/15	670 <b>,</b> 000		
G F S I, Inc. (C)	10.500	06/01/11	•		
Gannett Company, Inc.	9.375	11/15/17			
International Lease Finance Corporation	8.625	09/15/15	•		
Lyondell Chemical Co.	8.000		100,000	•	
Magnachip Semiconductor	10.500	04/15/18	95,000	95,24	
NBC Universal	5.150	04/30/20	•	499,29	
Sinclair Television Group, Inc.	9.250	11/01/17	•		
ViaSystems, Inc.	12.000	01/15/15	100,000	96 <b>,</b> 79	
TOTAL BONDS				3,350,18	
CONVERTIBLE PREFERRED STOCK - 0.00% ETEX Corporation (B)			194	17	
ETEX Corporation (b)			194		
TOTAL CONVERTIBLE PREFERRED STOCK				17	
PREFERRED STOCK - 0.00%					
TherOX, Inc. (B)			26	1,03	
TOTAL PREFERRED STOCK				1,03	
COMMON STOCK - 0.00%					
Nortek, Inc. (B)			100		
Touchstone Health Partnership (B)			292	1,06	
TOTAL COMMON STOCK				1,06	
TOTAL RULE 144A SECURITIES				3,352,46	
TOTAL CORPORATE RESTRICTED SECURITIES				\$118,558,14	
CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010 (Unaudited)					
	Interest	Due	Principal		
CORPORATE PUBLIC SECURITIES - 15.81%: (A)	Rate	Date	Amount	Cost	
BONDS - 15.35%					
ACCO Brands Corporation	10 625%	03/15/15	\$ 45,000	\$ 44,43	
Affinia Group, Inc.		11/30/14			
intinia ofoap, inc.	J. 000	11/00/11	23,000	27,20	

Allegheny Technologies, Inc.	9.375	06/12/19	500,000	520,62
Allied Waste NA	7.125	05/15/16	500,000	506,19
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	514,81
Citigroup, Inc.	5.500	04/11/13	500,000	437,89
Cytec Industries, Inc.	8.250	11/15/19	600,000	603 <b>,</b> 67
Diversey, Inc.	8.950	07/01/17	45,000	44,62
Equifax, Inc.	4.450	12/01/14	500,000	516,46
Exide Corporation	10.500	03/15/13	250,000	252,24
GATX Corporation	4.750	05/15/15	500,000	512 <b>,</b> 61
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	48,21
Headwaters, Inc.	11.375	11/01/14	45,000	44,58
Intelsat Burmuda Ltd.	9.250	06/15/16	690,000	713 <b>,</b> 57
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	512,06
J.C. Penney Company, Inc.	7.950	04/01/17	500,000	554 <b>,</b> 73
Johnson Controls, Inc.	5.500	01/15/16	500,000	398,12
Kraft Foods, Inc.	5.375	02/10/20	500,000	516,70
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
Pride International, Inc.	6.875	08/15/20	30,000	30,00
Qwest Diagnostic, Inc.	4.750	01/30/20	500,000	498,66
Rental Service Corporation	9.500	12/01/14	175,000	175,61
Sealed Air Corporation	7.875	06/15/17	500,000	492,89
Sheridan Acquisition Corporation	10.250	08/15/11	225,000	222,00
Sprint Capital Corporation	6.900	05/01/19	440,000	405,22
Teck Resources Ltd.	10.750	05/15/19	30,000	28,60
			<b>, ,</b>	- ,

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MassMutual Participation Investors CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED)
September 30, 2010
(Unaudited)

CORPORATE PUBLIC SECURITIES: (A) (Continued)	Interest Rate	Due Date	Shares or Principal Amount	 Cost
The Valspar Corporation	7.250%	06/15/19	\$ 500,000	\$ 501,38
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	988,79
Tyco International Group SA	8.500	01/15/19	500,000	457,49
Tyco International Group SA	6.550	10/01/17	125,000	124,99
United Components, Inc.	9.375	06/15/13	535,000	535,08
Verso Paper Holdings LLC	9.125	08/01/14	500,000	486,87
W P P Finance Corporation	5.875	06/15/14	500,000	507,22

TOTAL BONDS			16,762,07
COMMON STOCK - 0.46%			
CKX, Inc. (B)		52,500	422 <b>,</b> 62
Directed Electronics, Inc. (B)		195,118	982 <b>,</b> 86
Intrepid Potash, Inc. (B)		185	5 <b>,</b> 92
<pre>ITC^DeltaCom, Inc. (B)</pre>		94,588	827 <b>,</b> 64
Rue21, Inc. (B)		350	6 <b>,</b> 65
TOTAL COMMON STOCK			2,245,70
TOTAL CORPORATE PUBLIC SECURITIES			\$ 19,007,78
TOTAL INVESTMENTS	104.37%		\$137 <b>,</b> 565 <b>,</b> 92
Other Assets	6.44		
Liabilities	(10.81)		
TOTAL NET ASSETS	100.00%		
	=====		

- (A) In each of the convertible note, warrant, convertible preferred and common stock investments, agreed to provide certain registration rights.
- (B) Non-income producing security.
- (C) Variable rate security; rate indicated is as of 09/30/10.
- (D) Defaulted security; interest not accrued.
- (E) Illiquid security. As of September 30, 2010, the value of these securities amounted to \$103,1 85.66% of net assets.

PIK - Payment-in-kind

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010 (Unaudited)

INDUSTRY CLASSIFICATION:	Fair Value/ Market Value	
AEROSPACE - 4.40% A E Company, Inc. Gencorp, Inc. P A S Holdco LLC	\$ 1,846,976 132,275 2,499,798	BUILDINGS & REAL ESTATE - K W P I Holdings Corporati Masco Corporation Owens Corning, Inc.
Visioneering, Inc.	821,479  5,300,528	TruStile Doors, Inc.
AUTOMOBILE - 5.14% Exide Corporation	255,625	CHEMICAL, PLASTICS & RUBBE Capital Specialty Plastics
Goodyear Tire & Rubber Co. Jason, Inc. Johnson Controls, Inc.	56,625 25,509 566,589	CONSUMER PRODUCTS - 9.88%
Nyloncraft, Inc. Ontario Drive & Gear Ltd. Qualis Automotive LLC Titan International, Inc.	967,240 420,038 1,452,629 75,250	Aero Holdings, Inc. Bravo Sports Holding Corpo Custom Engineered Wheels, G F S I, Inc.

Transtar Holding Company	1,823,498	Johnson Diversey, Inc.
United Components, Inc.	544,364	K N B Holdings Corporation
	6,187,367	Manhattan Beachwear Holdin Momentum Holding Co. R A J Manufacturing Holdin
BEVERAGE, DRUG & FOOD - 6.09%		Royal Baths Manufacturing
Eatem Holding Company	1,023,022	The Tranzonic Companies
F F C Holding Corporation	990,096	
Golden County Foods Holding, Inc.	1,207,177	
Hospitality Mints Holding Company	1,119,209	
Kraft Foods, Inc.	556,576	CONTAINERS, PACKAGING & GL
L H D Europe Holding, Inc.	12,825	Flutes, Inc.
Spartan Foods Holding Company	1,022,078	Maverick Acquisition Compa
Specialty Commodities, Inc.	1,399,428	P I I Holding Corporation
		Paradigm Packaging, Inc.
	7,330,411	Sealed Air Corporation
		Vitex Packaging Group, Inc
BROADCASTING & ENTERTAINMENT - 2.39%		
C C O Holdings LLC	354,813	
CKX, Inc.	257 <b>,</b> 250	
NBC Universal	536,407	DISTRIBUTION - 1.81%
Sinclair Television Group, Inc.	214,500	Duncan Systems, Inc.
Time Warner Cable, Inc.	535 <b>,</b> 463	F C X Holdings Corporation
WPP Finance Corporation	554,010	
Workplace Media Holding Co.	429,584	
	2,882,027	

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MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010 (Unaudited)

A S C Group, Inc.

INDUSTRY CLASSIFICATION:	Fair Value/ Market Value	
DIVERSIFIED/CONGLOMERATE,		ELECTRONICS - 1.09%
MANUFACTURING - 9.33%		Barcodes Group, Inc.
A H C Holdings Company, Inc.	\$ 1,567,332	Connecticut Electric, Inc.
Arrow Tru-Line Holdings, Inc.	853,187	Directed Electronics, Inc.
C D N T, Inc.	784,045	,
Headwaters, Inc.	47 <b>,</b> 925	
K P I Holdings, Inc.	1,059,456	
MEGTEC Holdings, Inc.	1,129,821	FINANCIAL SERVICES - 2.86%
Milwaukee Gear Company	1,121,539	American General Finance C
Nortek, Inc.	110,627	Citigroup, Inc.
O E C Holding Corporation	506 <b>,</b> 546	GATX Corporation
Postle Aluminum Company LLC	1,968,356	General Electric Capital C
Truck Bodies & Equipment International	1,100,428	Goldman Sachs Group, Inc.
Xaloy Superior Holdings, Inc.	983 <b>,</b> 793	Highgate Capital LLC
		International Lease Financ
	11,233,055	Morgan Stanley
DIVERSIFIED/CONGLOMERATE, SERVICE - 12.94%		

1,380,701

A W X Holdings Corporation	315,000	HEALTHCARE, EDUCATION & CH
ACCO Brands Corporation	50,288	American Hospice Managemen
Advanced Technologies Holdings	1,456,151	F H S Holdings LLC
Affinia Group, Inc.	25 <b>,</b> 750	Qwest Diagnostic, Inc.
Apex Analytix Holding Corporation	1,401,005	Synteract Holdings Corpora
Associated Diversified Services	694 <b>,</b> 419	Touchstone Health Partners
C R H America, Inc.	536 <b>,</b> 692	Wheaton Holdings Corporati
Clough, Harbour and Associates	1,441,508	
Crane Rental Corporation	1,212,223	
Diversco, Inc./DHI Holdings, Inc.	236,518	
Dwyer Group, Inc.	830,058	HOME & OFFICE FURNISHINGS,
Equifax, Inc.	532,611	& DURABLE CONSUMER PRODUCT
Insurance Claims Management, Inc.	181,594	Connor Sport Court Interna
Iron Mountain, Inc.	530,625	H M Holding Company
Mail Communications Group, Inc.	710,209	Home Decor Holding Company
Nesco Holdings Corporation	1,577,069	Justrite Manufacturing Acq
Northwest Mailing Services, Inc.	1,726,849	K H O F Holdings, Inc.
Pearlman Enterprises, Inc.		Monessen Holding Corporati
Tyco International Group	751 <b>,</b> 004	Stanton Carpet Holding Co.
		Transpac Holdings Company
	15,590,274	U M A Enterprises, Inc.
		U-Line Corporation
		Wellborn Forest Holding Co
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CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED)
September 30, 2010
(Unaudited)

MEDICAL DEVICES/BIOTECH - 3.88%

INDUSTRY CLASSIFICATION:	Fair Value/ Market Value	
LEISURE, AMUSEMENT, ENTERTAINMENT - 1.86% International Game Technology Savage Sports Holding, Inc.	\$ 594,210 1,381,713	NATURAL RESOURCES - 2.29% Appleton Papers, Inc. ArcelorMittal
Ticketmaster Entertainment, Inc.	273,750	Cenveo Corporation
	2,249,673	Cytec Industries, Inc. Intrepid Potash, Inc. Lyondell Chemical Co.
MACHINERY - 7.26%		The Valspar Corporation
A S A P Industries LLC	677 <b>,</b> 667	Verso Paper Holdings LLC
Davis-Standard LLC	1,418,726	_
E S P Holdco, Inc.	1,284,220	
M V I Holding, Inc.	634,794	
Manitowoc Company, Inc.	99,750	OIL & GAS - 2.60%
Navis Global	572 <b>,</b> 660	Coffeyville Resources LLC
NetShape Technologies, Inc.	567,000	International Offshore Ser
Pacific Consolidated Holdings LLC	711,314	MBWS Ultimate Holdco, Inc.
Power Services Holding Company	1,254,854	Pride International, Inc.
R E I Delaware Holding, Inc.	1,363,095	Total E & S, Inc.
Safety Speed Cut Manufacturing Company, Inc.	164,253	
	8,748,333	
		PHARMACEUTICALS - 1.23%

CorePharma LLC

Coeur, Inc.	707,298	
E X C Acquisition Corporation	40,585	PUBLISHING/PRINTING - 0.24
ETEX Corporation		Gannett Company, Inc.
MedSystems Holdings LLC	702,780	Sheridan Acquisition Corpo
MicroGroup, Inc.	1,208,526	
OakRiver Technology, Inc.	608,874	
Precision Wire Holding Company	1,405,947	
TherOX, Inc.		RETAIL STORES - 0.72%
		J. C. Penney Company, Inc.
	4,674,010	Olympic Sales, Inc.
		Rental Service Corporation
MINING, STEEL, IRON & NON-PRECIOUS		Rue21, Inc.
METALS - 2.28%		
Allegheny Technology, Inc.	604,286	
T H I Acquisition, Inc.	1,080,000	
Teck Resources, Ltd.	37 <b>,</b> 779	TECHNOLOGY - 2.62%
Tube City IMS Corporation	1,020,000	Compucom Systems, Inc.
		Magnachip Semiconductor
	2,742,065	Sencore Holding Company
		Smart Source Holdings LLC
		ViaSystems, Inc.

MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010

(Unaudited)

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INDUSTRY CLASSIFICATION:	Fair Value/ Market Value		
TELECOMMUNICATIONS - 3.29% All Current Holding Company	\$	703,205	
Centurytel, Inc.		518,649	
Intelsat Bermuda Ltd.		733,125	
ITC^DeltaCom, Inc.		130,531	
Spirit Capital Corporation		442,200	
Sundance Investco LLC Telecorps Holdings, Inc.		1,429,425	
refectips notatings, inc.			
		3,957,135	
TRANSPORTATION - 0.0% NABCO, Inc.			
UTILITIES03%			
Markwest Energy Operating Co.		35 <b>,</b> 394	
WASTE MANAGEMENT / POLLUTION - 1.50%			
Allied Waste NA		535,625	
Terra Renewal LLC		1,273,352	
Torrent Group Holdings, Inc.			
		1,808,977	

TOTAL INVESTMENTS - 104.37%

\$ 125,717,780 ==========

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 September 30, 2010. The net unrealized depreciation of investments for financial reporting and Federal tax purposes as of September 30, 2010 is \$11,848,145 and consists of \$12,106,802 appreciation and \$23,954,947 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 2: other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.)
- 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 September 30, 2010:

ASSETS	TOTAL	LEVEL 1	LEVEL 2	LEVEL 3
Restricted Securities Corporate Bonds	\$ 90,563,786	\$	\$ 3,495,552	\$ 87,068,234
Common Stock - U.S.	8,377,394		3,493,332	8,373,489
Preferred Stock Partnerships and LLCs	3,546,788 4,193,707			3,546,788 4,193,707
Public Securities	4,193,707			4,193,707

Corporate Bonds	18,488,128		18,488,128	
Common Stock - U.S.	547 <b>,</b> 977	547 <b>,</b> 977		
Preferred Stock				
Short-term Securities				
Total	\$125,717,780	\$ 547,977	\$ 21,987,585	\$103,182,218

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)	asfers in and/or of Level 3
Restricted Securities				
Corporate Bonds	\$81,465,949	\$ 3,337,086	\$ 2,265,199	\$ 
Common Stock - U.S.	7,767,378	1,138,392	(532,281)	
Preferred Stock	3,468,130	1,319,134	(1,240,476)	
Partnerships and LLCs	3,536,247	1,472,509	(815,049)	
	\$96,237,704	\$ 7,267,121	\$ (322,607)	\$ 

#### 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 Participation Investors

By (Signature and Title) \* /s/ Michael L. Klofas \_\_\_\_\_ Michael L. Klofas, President Date November 29, 2010 \_\_\_\_\_ Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the Registrant and in the capacities and on the dates indicated. By (Signature and Title) \* /s/ Michael L. Klofas -----Michael L. Klofas, President Date November 29, 2010 \_\_\_\_\_ By (Signature and Title) \* /s/ James M. Roy \_\_\_\_\_ James M. Roy, Vice President and Chief Financial Officer Date November 29, 2010 \_\_\_\_\_\_

<sup>\*</sup> PRINT THE NAME AND TITLE OF EACH SIGNING OFFICER UNDER HIS OR HER SIGNATURE.