MASSMUTUAL PARTICIPATION INVESTORS Form N-30D November 24, 2010

MassMutual Participation Investors

Report for the Nine Months Ended September 30, 2010

LOGO

ADVISER
Babson Capital Management LLC *
1500 Main Street, P.O. Box 15189
Springfield, Massachusetts 01115-5189

INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM KPMG LLP Boston, Massachusetts 02110

COUNSEL TO THE TRUST
Ropes & Gray LLP
Boston, Massachusetts 02110

CUSTODIAN
Citibank, N.A.
New York, New York 10043

TRANSFER AGENT & REGISTRAR Shareholder Financial Services, Inc.* P.O. Box 173673 Denver, Colorado 80217-3673 1-800-647-7374

INTERNET WEBSITE

LOGO

www.babsoncapital.com/mpv

MassMutual Participation Investors c/o Babson Capital Management LLC 1500 Main Street, Suite 2200 Springfield, Massachusetts 01115

(413) 226-1516

* Member of the MassMutual Financial Group

INVESTMENT OBJECTIVE AND POLICY

MassMutual Participation Investors (the "Trust") is a closed-end management investment company, first offered to the public in 1988, whose shares are traded on the New York Stock Exchange under the trading symbol "MPV". The Trust's share price can be found in the financial section of most newspapers as "MassPrt" or "MassMuPrt" under either the New York Stock Exchange listings or Closed-End Fund Listings.

The Trust's investment objective is to maximize total return by providing a high level of current income, the potential for growth of income, and capital appreciation. The Trust's principal investments are privately placed, below-investment grade, long-term debt obligations purchased directly from their issuers, which tend to be smaller companies. At least half of these investments normally include equity features such as common stock, warrants, conversion rights, or other equity features that provide the Trust with the opportunity to realize capital gains. The Trust will also invest in publicly traded debt securities (including high yield securities), again with an emphasis on those with equity features, and in convertible preferred stocks and, subject to certain limitations, readily marketable equity securities. Below-investment grade or high yield securities have predominantly speculative characteristics with respect to the capacity of the issuer to pay interest and repay principal. In addition, the Trust may temporarily invest in high quality, readily marketable securities.

Babson Capital Management LLC ("Babson Capital") manages the Trust on a total return basis. The Trust distributes substantially all of its net income to shareholders each year. Accordingly, the Trust pays dividends to shareholders in January, May, August, and November. All registered shareholders are automatically enrolled in the Dividend Reinvestment and Cash Purchase Plan unless cash distributions are requested.

FORM N-Q

The Trust files its complete schedule of portfolio holdings with the U.S. Securities and Exchange Commission ("SEC") for the first and third quarters of each fiscal year on Form N-Q. This information is available (i) on the SEC's website at http://www.sec.gov; and (ii) at the SEC's Public Reference Room in Washington, DC (which information on their operation may be obtained by calling 1-800-SEC-0330). A complete schedule of portfolio holdings as of each quarter-end is available upon request by calling, toll-free, 866-399-1516.

PROXY VOTING POLICIES & PROCEDURES; PROXY VOTING RECORD

The Trustees of the Trust have delegated proxy voting responsibilities relating to the voting of securities held by the Trust to Babson Capital. A description of Babson Capital's proxy voting policies and procedures is available (1)

without charge, upon request, by calling, toll-free 866-399-1516; (2) on the Trust's website: http://www.babsoncapital.com/mpv; and (3) on the SEC's website at http://www.sec.gov. Information regarding how the Trust voted proxies relating to portfolio securities during the most recent 12-month period ended June 30 is available (1) on the Trust's website: http://www.babsoncapital.com/mpv; and (2) on the SEC's website at http://www.sec.gov.

MPV
LISTED
NYSE
THE NEW YORK STOCK EXCHANGE

TO OUR SHAREHOLDERS

MassMutual Participation Investors

October 31, 2010

We are pleased to present the September 30, 2010 Quarterly Report of MassMutual Participation Investors (the "Trust"). The Board of Trustees declared a quarterly dividend of 25 cents per share, payable on November 12, 2010 to shareholders of record on November 1, 2010. The Trust paid a 25 cent per share dividend for the preceding quarter. The Trust earned 25 cents per share of net investment income for the third quarter of 2010, compared to 24 cents per share in the previous quarter.

During the third quarter, the net assets of the Trust increased to \$120,460,047 or \$12.00 per share compared to \$114,929,455 or \$11.47 per share on June 30, 2010. This translates into a 6.9% total return for the quarter, based on the change in the Trust's net assets assuming the reinvestment of all dividends. Longer term, the Trust returned 16.9%, 5.7%, 10.2%, and 11.8% for the 1-, 3-, 5-, and 10-year time periods, respectively, based on the change in the Trust's net assets assuming the reinvestment of all dividends.

The Trust's share price increased 7.1% during the quarter, from \$12.91 per share as of June 30, 2010 to \$13.83 per share as of September 30, 2010. The Trust's market price of \$13.83 per share equates to a 15.3% premium over the September 30, 2010 net asset value per share of \$12.00. The Trust's average quarter-end premium for the 3, 5 and 10- year periods was 1.54%, 5.92% and 7.88%, respectively. U.S. equity markets, as approximated by the Russell 2000 Index, increased 11.3% for the quarter. U.S. fixed income markets, as approximated by the Barclays Capital U.S. Corporate High Yield Index, increased 6.7% for the quarter.

The Trust closed four new private placement investments and two "follow-on" investments in existing portfolio companies during the third quarter. The four new investments were in Associated Diversified Services, Barcodes Group, Inc., F C Holding Corporation and MBWS Ultimate Holdco, Inc., while the two follow-on investments were in Northwest Mailing Services, Inc. and Pacific Consolidated Holdings LLC. A brief description of these investments can be found in the Consolidated Schedule of Investments. The total amount invested by the Trust in these six transactions was \$3,808,000.

As evidenced by the increased level of new investment activity, our deal flow during the third quarter was very robust, and has remained so as we moved into the fourth quarter. A variety of factors, including upcoming possible tax law changes, renewed vigor from private equity buyers after 12-18 months of limited activity, and the presence of cash-rich strategic buyers, have contributed to the high level of transaction volume. Of course, without an adequate supply of debt and equity capital, strong deal flow does not translate into new investments. Fortunately, there currently is a plentiful supply of equity capital. The availability of debt capital, particularly senior debt, has continued to improve and is adequate to meet the needs of the market. As a result, we currently are very busy processing new transactions and expect that

our efforts will result in a number of attractive new investments for the Trust in the fourth quarter of 2010. Barring any external shocks, we expect our investment activity to remain strong into 2011. Leverage multiples continued to increase during the quarter, but not to what we would view as excessive levels. Pricing and return expectations for new investments were stable during the quarter, and remain relatively favorable in our view. All in all, conditions are favorable for new investment activity.

The condition of our existing portfolio continued to improve in the third quarter. Sales and earnings for most of our portfolio companies have trended upward so far in 2010, after showing a deteriorating trend for all of 2009. It continues to be particularly refreshing to see some of our companies which had underperformed expectations begin to show improved results. Patience and, in certain cases, additional equity support from the equity sponsor group sometimes coupled with the deferral of interest on our debt obligations, has proven to be the right approach to helping these companies rebound. We had several more instances during the quarter in which companies which had stopped paying

(Continued)

1

cash interest on our debt obligations resumed payment due to their improved operating results and liquidity position. Realization activity, which generally correlates highly with improved performance, also remained strong during the quarter. There were three companies in the Trust's portfolio, Diversco, Inc., K-Tek Holding Corporation, and Waggin' Train Holdings LLC, which were successfully sold during the quarter. One additional company, PAS Holdco LLC, was also sold for a nice gain in the first week of October. There continues to be a significant number of portfolio companies that are in various stages of a sale process and we are hopeful that many of these will turn into successful realizations in the upcoming quarters.

Certainly market conditions are constantly changing. As I have stated in prior quarters though, we will not waver in our approach to investing — we will continue to maintain the same discipline and investment philosophy that has served the Trust's shareholders well for so many years. Thank you for your continued interest in and support of MassMutual Participation Investors.

Sincerely,

/s/ Michael L. Klofas

Michael L. Klofas President

PORTFOLIO COMPOSITION AS OF 9/30/10 *

[PIE CHART APPEARS HERE]

PRIVATE / RESTRICTED

0.4%

EQUITY 12.4%

PRIVATE / 144A HIGH YIELD DEBT 69.5%

PUBLIC EQUITY

CASH & SHORT TERM INVESTMENTS 3.5%

PUBLIC HIGH YIELD DEBT 14.2%

* Based on market value of total investments (including cash)
Cautionary Notice: Certain statements contained in this report may be "forward looking" statements. Investors are cautioned not to place undue reliance on forward-looking statements, which speak only as of the date on which they are made and which reflect management's current estimates, projections, expectations or beliefs, and which are subject to risks and uncertainties that may cause actual results to differ materially. These statements are subject to change at any time based upon economic, market or other conditions and may not be relied upon as investment advice or an indication of the Trust's trading intent. References to specific securities are not recommendations of such securities, and may not be representative of the Trust's current or future investments. We undertake no obligation to publicly update forward looking statements, whether as a result of new information, future events, or otherwise.

2.

CONSOLIDATED STATEMENT OF ASSETS AND LIABILITIES SEPTEMBER 30, 2010 (UNAUDITED) MassMutual Participation Investors

ASSETS:

Investments

(See Consolidated Schedule of Investments) Corporate restricted securities at fair value	
(Cost - \$115,205,680) Corporate restricted securities at market value	\$ 103,182,218
(Cost - \$3,352,463) Corporate public securities at market value	3,499,457
(Cost - \$19,007,782)	19,036,105
Cash	125,717,780 4,543,267
Interest receivable	3,163,774
Receivable for investments sold	49,542
Other assets	6 , 269
other abbets	
TOTAL ASSETS	133,480,632
LIABILITIES:	0.51
Investment advisory fee payable	271,035
Note payable	12,000,000
Interest payable	262,933
Accrued taxes payable	331,168
Accrued expenses Other payables	136,058 19,391
Other payables	19,391
TOTAL LIABILITIES	13,020,585
TOTAL NET ASSETS	\$ 120,460,047
NET ACCETC.	=========
NET ASSETS: Common shares, par value \$.01 per share; an unlimited	
number authorized	\$ 100,346
Additional paid-in capital	93,724,310
Retained net realized gain on investments, prior years	32,871,737
notation not realized gain on investments, prior years	32,011,131

Undistributed net investment income Accumulated net realized gain on investments Net unrealized depreciation of investments	3,585,421 2,026,378 (11,848,145)
TOTAL NET ASSETS \$	120,460,047
COMMON SHARES ISSUED AND OUTSTANDING	10,034,604
NET ASSET VALUE PER SHARE \$	12.00
See Notes to Consolidated Financial Statements	
	3
CONSOLIDATED STATEMENT OF OPERATIONS FOR THE NINE MONTHS ENDED SEPTEMBER 30, 2010 (UNAUDITED)	
INVESTMENT INCOME:	
Interest Dividends Other	\$ 8,904,831 79,087 36,734
TOTAL INVESTMENT INCOME	9,020,652
EXPENSES: Investment advisory fees Interest Trustees' fees and expenses Professional fees Reports to shareholders Custodian fees Transfer agent/registrar's expenses Other	781,559 522,000 149,152 103,500 83,000 18,000 13,500 31,759
TOTAL EXPENSES	1,702,470
INVESTMENT INCOME - NET	7,318,182
NET REALIZED AND UNREALIZED GAIN ON INVESTMENTS: Net realized gain on investments before taxes Income tax expense	2,092,662 (333,717)
Net realized gain on investments after taxes Net change in unrealized depreciation of investments before taxes Net change in deferred income tax expense	1,758,945
Net change in unrealized depreciation of investments after taxes	6,838,114
NET GAIN ON INVESTMENTS	8,579,059
NET INCREASE IN NET ASSETS RESULTING FROM OPERATIONS	\$ 15,915,241 =========
See Notes to Consolidated Financial Statements	

6

4

CONSOLIDATED STATEMENT OF CASH FLOWS MassMutual Participation Investors FOR THE NINE MONTHS ENDED SEPTEMBER 30, 2010 (UNAUDITED)

NET INCREASE IN CASH:		
Cash flows from operating activities:		
Purchases/Proceeds/Maturities from short-term portfolio	5 7 500 400	
securities, net	\$ 7,529,400	
Purchases of portfolio securities	(20,506,031	
Proceeds from disposition of portfolio securities	15,642,979	
Interest, dividends and other income received	7,066,351	
Interest expense paid	(348,000	
Operating expenses paid	(1,207,746	
Income taxes paid	(38,549	
NET CASH PROVIDED BY OPERATING ACTIVITIES	8,138,404	
Cash flows from financing activities:		
Cash dividends paid from net investment income	(7,500,695)
Receipts for shares issued on reinvestment of dividends	624,316	
NET CASH USED FOR FINANCING ACTIVITIES	(6,876,379)
NET INCREASE IN CASH	1,262,025	
Cash - beginning of year	3,281,242	
oddin beginning of fedi		
CASH - END OF PERIOD	\$ 4,543,267 =========	
RECONCILIATION OF NET INCREASE IN NET ASSETS TO NET CASH PROVIDED BY OPERATING ACTIVITIES:		
NET INCREASE IN NET ASSETS RESULTING FROM OPERATIONS	\$ 15,915,241	
Increase in investments	(6,475,719	
Increase in interest receivable	(1,641,579)
Increase in receivable for investments sold	(3,929)
Increase in other assets	1000)
	(6,269	
Increase in investment advisory fee payable	(6,269 26,698	
Increase in investment advisory fee payable Increase in interest payable		
Increase in investment advisory fee payable	26,698	
Increase in investment advisory fee payable Increase in interest payable Decrease in accrued expenses Increase in accrued taxes payable	26,698 174,000 (21,514 210,205)
Increase in investment advisory fee payable Increase in interest payable Decrease in accrued expenses	26,698 174,000 (21,514)
Increase in investment advisory fee payable Increase in interest payable Decrease in accrued expenses Increase in accrued taxes payable	26,698 174,000 (21,514 210,205 (38,730)
Increase in investment advisory fee payable Increase in interest payable Decrease in accrued expenses Increase in accrued taxes payable Decrease in other payables	26,698 174,000 (21,514 210,205 (38,730	; ; ; ; ; ;

See Notes to Consolidated Financial Statements

_

	mo	For the nine months ended 09/30/10 (Unaudited)		ear ended
INCREASE (DECREASE) IN NET ASSETS:				
Operations:				
Investment income - net	\$	7,318,182	\$	9,375,528
Net realized gain on investments		1,758,945		1,012,575
Net change in unrealized depreciation of investments		6,838,114		(2,299,878)
Net increase in net assets resulting from operations		15,915,241		
<pre>Increase from common shares issued on reinvestment of dividends Common shares issued (2010 - 51,365; 2009 - 55,996) Dividends to shareholders from:</pre>		624,316		616,488
Net investment income (2010 - \$0.50 per share; 2009 - \$1.00 per share)		(5,004,885)		(9,955,268)
TOTAL INCREASE (DECREASE) IN NET ASSETS		11,534,672		(1,250,555)
NET ASSETS, BEGINNING OF YEAR		08,925,375		
NET ASSETS, END OF PERIOD/YEAR (including undistributed net investment income of \$3,585,421 and \$1,272,124,				
respectively)	\$ 1	20,460,047	\$	108,925,375
	===	=======	==	

See Notes to Consolidated Financial Statements

6

CONSOLIDATED SELECTED FINANCIAL HIGHLIGHTS MassMutual Participation Investors SELECTED DATA FOR EACH SHARE OF BENEFICIAL INTEREST OUTSTANDING:

	nine	or the months ended				For the y		ended De
		09/30/2010 (Unaudited)				2008		2007
Net asset value:	ć	10 01	ć	11 10	ć	10.04	ć	12 00
Beginning of year	ې 	10.91	ې 	11.10	ې 	12.84	ې 	12.90
Net investment income (a)		0.73		0.94		1.08		1.23
Net realized and unrealized								
gain (loss) on investments		0.86		(0.13)		(1.82)		(0.05)
Total from investment operations		1.59		0.81		(0.74)		1.18
Dividends from net investment income to common shareholders		(0.50)		(1.00)		(1.00)		(1.23)
Dividends from net realized gain on investments to common shareholders								(0.02)

Increase from dividends reinvested		0.00(c)	0.00(c)	0.00(c)	0.01
Total dividends		(0.50)	(1.00)	(1.00)	 (1.24)
Net asset value: End of period/year	\$	12.00	\$ 10.91	\$ 11.10	\$ 12.84
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	\$	13.83	\$ 12.20	\$ 9.05	\$ 13.18
Total investment return Net asset value (d) Market value			7.60%		9.95%
<pre>Net assets (in millions): End of period/year</pre>	\$	120.46	\$ 108.93	\$ 110.18	\$ 126.63
Ratio of operating expenses to average net assets		1.40%(e)	1.41%	1.33%	1.36%
Ratio of interest expense to average net assets		0.62%(e)	0.63%	0.58%	0.56%
Ratio of income tax expense to average net assets (f)		0.40%(e)	0.00%	0.00%	0.48%
Ratio of total expenses before custodian fee reduction to average net assets (f)	<u>;</u>	2.42%(e)	2.04%	1.91%	2.40%
Ratio of net expenses after custodian fee reduction to average net assets (f)		2.42%(e)	2.04%	1.91%	2.40%
Ratio of net investment income to average net assets		8.67%(e)	8.55%	8.74%	9.32%
Portfolio turnover		13%	23%	32%	33%

⁽a) Calculated using average shares.

(f) As additional information, this ratio is included to reflect the taxes paid on retained longnetted against realized capital gains in the Statement of Operations. The taxes paid are trea credit for the taxes paid is passed on to shareholders.

Senior borrowings:							
Total principal amount (in millions)	\$	12	\$	12	\$	12	\$ 12
Asset coverage per \$1,000							
of indebtedness	\$	11,038	\$	10,077	\$	10,181	\$ 11,552

See Notes to Consolidated Financial Statements

.

⁽b) Amount includes \$0.10 per share in litigation proceeds.

⁽c) Rounds to less than \$0.01 per share.

⁽d) Net asset value return represents portfolio returns based on change in the Trust's net asset all dividends and distributions which differs from the total investment return based on the T difference between the Trust's net asset value and the market value of its shares outstanding of future results.

⁽e) Annualized

September 30, 2010 (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 str 11% Senior Secured Note due 2015	ructures for the com \$ 807,692	mercial 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 t 15% Senior Subordinated Note due 2015	the commercial sectors \$ 1,342,450	r. 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 natural 12.5% Senior Subordinated Note due 2015 Limited Liability Company Unit Class A-2 (B) Limited Liability Company Unit Class A-3 (B)	aral 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 Limited Liability Company Unit Class A (B) Limited Liability Company Unit Class B (B)	\$ 1,227,273 1,249 uts. 1,473 uts.	ons products, co 10/09/09 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)	\$ 420,000 \$ 420,000 60,000 shs. 21,099 shs.	al construction 05/15/08 05/15/08 05/15/08 05/15/08

8

Principal Amount

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

	Character Hall	
	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	\$ 1,172,906	12/27/07
Preferred Stock (B)	546 shs.	12/27/07
AERO HOLDINGS, INC.		
A provider of geospatial services to corporate and government	clients.	
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
Condition Second de 4.02 por Share (2)	5., . 55 Sh5.	33, 33, 31
ALL CURRENT HOLDING COMPANY		
A specialty re-seller of essential electrical parts and component	nents primarily servi	ing wholesale di
12% Senior Subordinated Note due 2015	\$ 603,697	09/26/08
Common Stock (B)	713 shs.	
` '	/13 5115.	03/20/00
Warrant, exercisable until 2018, to purchase	F 0 7 - 1-	00/06/00
common stock at \$.01 per share (B)	507 shs.	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
	J, 090 acs.	09/12/00
* 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	software to commerci	al and retail b
12.5% Senior Subordinated Note due 2016	\$ 1,012,500	04/28/09
Preferred Stock Series B (B)	1,623 shs.	04/28/09
Common Stock (B)	723 shs.	04/28/09
		. ,,

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

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date
ARROW TRU-LINE HOLDINGS, INC.		
A manufacturer of hardware for residential and commercial o 12% Senior Subordinated Note due 2012	verhead garage doors ir \$ 984,209	n North America. 05/18/05
Preferred Stock (B)	•	10/16/09
Common Stock (B)		05/18/05
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 prima distribution lines.	rily to electric utilit	y companies pre
10% Senior Secured Term Note due 2016 (C)	\$ 323,700	09/30/10
13% Senior Subordinated Note due 2017	\$ 296,180	09/30/10
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
A distibutor and reseller of automatic identification and d point-of-sale systems, labels, and accessories. 13.5% Senior Subordinated Note due 2016 Preferred Stock (B) Common Stock Class A (B) Warrant, exercisable until 2020, to purchase common stock at \$.01 per share (B)	\$ 638,651 13 shs. 44 shs. 8 shs.	07/27/10 07/27/10 07/27/10
BRAVO SPORTS HOLDING CORPORATION A designer and marketer of niche branded consumer products urethane wheels.	including canopies, tra	ampolines, 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	1.64 - 1	06/20/06
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 pressu		
10.5% Senior Secured Term Note due 2014	\$ 377,112	08/07/08
12.5% Senior Subordinated Note due 2015 Common Stock (B)	\$ 429,070 41,860 shs.	08/07/08 08/07/08
Warrant, exercisable until 2018, to purchase	,	
common stock at \$ 01 per share (B)	32 01/ chc	08/07/08

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)

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition 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 th 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.	
*08/12/04 and 01/14/05. COREPHARMA LLC A manufacturer of oral dose generic pharmaceuticals targeted a 12% Senior Subordinated Note due 2013 Warrant, exercisable until 2013, to purchase common stock at \$.001 per share (B)	t niche applications. \$ 1,350,000 10 shs.	08/04/05 08/04/05
COMMON SCOCK AC 4.001 PET SHALE (D)	10 5115.	00/04/03

Principal Amount

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

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	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.	08/21/08
Warrant, exercisable until 2016, to purchase	70 007 -1	00/01/00
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 products and wheelchairs. 12.5% Senior Subordinated Note due 2016 Preferred Stock PIK (B) Preferred Stock Series A (B) Common Stock (B) Warrant, exercisable until 2016, to purchase common stock at \$.01 per share (B)	<pre>wheels and plastic trea \$ 1,155,288</pre>	10/27/09 10/27/09 10/27/09 10/27/09 10/27/09
DAVIS-STANDARD LLC A manufacturer, assembler, and installer of a broad range o	f capital equipment the	at is used in th
processing of plastic materials. 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	0.57% IIIC.	10/30/00
preferred stock at \$.01 per share (B)	26 shs.	10/30/06
Warrant, exercisable until 2014, to purchase	_ 3 33•	_ = , , , , , ,
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, Ir	nc. at \$.01 per share (B)	6,676 shs.	*

^{*10/24/96} and 08/28/98.

12

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
DUNCAN SYSTEMS, INC. A distributor of windshields and side glass for the recreation	al 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	00 004 1	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.		
E S P HOLDCO, INC. A manufacturer of power protection technology for commercial o network.	ffice equipment, pr	imarily supplyin
14% Senior Subordinated Note due 2015 Common Stock (B)	\$ 1,241,169 349 shs.	01/08/08 01/08/08
E X C ACQUISITION CORPORATION A manufacturer of pre-filled syringes and pump systems used fo	r intravenous drug	delivery.
Warrant, exercisable until 2014, to purchase	11 aba	06/29/04
common stock at \$.01 per share (B)	11 shs.	06/28/04
EATEM HOLDING COMPANY A developer and manufacturer of savory flavor systems for soup for retail and foodservice end products.	s, sauces, gravies,	and other produ
12.5% Senior Subordinated Note due 2018	\$ 950,000	02/01/10
Common Stock (B)	50 shs.	02/01/10
Warrant, exercisable until 2018, to purchase		
common stock at \$.01 per share (B)	119 shs.	02/01/10
F C X HOLDINGS CORPORATION A distributor of specialty/technical valves, actuators, access high purity, and energy end markets in North America.	ories, and process	instrumentation
15% Senior Subordinated Note due 2015	\$ 1,186,983	10/06/08
Preferred Stock (B)	2,298 shs.	10/06/08
Common Stock (B)	1,625 shs.	10/06/08

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

CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date
F F C HOLDING CORPORATION A leading U.S. manufacturer of private label frozen novelty 16% Senior Subordinated Note due 2014 Limited Liability Company Units Preferred (B)	\$ 829,268 171 uts.	09/27/10 09/27/10
Limited Liability Company Units (B)	171 uts.	09/27/10
F H S HOLDINGS LLC A national provider of customized disease management service 12% Senior Subordinated Note due 2014 (D) Limited Liability Company Units of Linden/FHS Holdings LLC (Common Unit Class B (B)	\$ 1,265,625	ed employers. 06/01/06 06/01/06 06/01/06
FLUTES, INC. An independent manufacturer of micro fluted corrugated sheet 10% Senior Secured Term Note due 2013 (D) 14% Senior Subordinated Note due 2014 (D)	material for the food \$ 524,791 \$ 317,177	l 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	\$ 1,012,500 \$ 250,259	11/01/07 12/31/08
fully diluted common shares (B)	77,643 shs.	11/01/07
H M HOLDING COMPANY A designer, manufacturer, and importer of promotional and wo 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)	od 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.		

^{*} 09/18/07 and 06/27/08.

HIGHGATE CAPITAL LLC

An acquirer of controlling or substantial interests in manufacturing and marketing entities. Series A Preferred Units (B) 0.30% int. 0.7/21/94

14

MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010

Warrant, exercisable until 2011, to purchase

(Unaudited)

(Unaudited)		
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Principal Amount Shares, Units or Ownership Percentage	Acquisition Date
HOME DECOR HOLDING COMPANY A designer, manufacturer and marketer of framed art and wall d 12.5% Senior Subordinated Note due 2012	lecor products. \$ 1,081,731	*
Common Stock (B)	33 shs.	*
Warrant, exercisable until 2012, to purchase common stock at \$.02 per share (B)	106 shs.	*
* 06/30/04 and 08/19/04.		
HOSPITALITY MINTS HOLDING COMPANY A manufacturer of individually-wrapped imprinted promotional m		
12% Senior Subordinated Note due 2016	\$ 1,098,837	08/19/08
Common Stock (B)	251 shs.	08/19/08
Warrant, exercisable until 2016, to purchase	65 shs.	08/19/08
common stock at \$.01 per share (B)	03 8118.	08/19/00
<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>	administration service 37 shs. 11 shs.	02/27/07
INTERNATIONAL OFFSHORE SERVICES LLC A leading provider of marine transportation services, platform shallow waters of the Gulf of Mexico.	-	-
14.25% Senior Subordinated Secured Note due 2017 Limited Liability Company Unit (B)	\$ 1,350,000 1,647 uts.	07/07/09 07/07/09
JASON, INC. A diversified manufacturing company serving various industrial		
13% Senior Subordinated Note due 2010 (D)	\$ 510,187	08/04/00
Limited Partnership Interest of Saw Mill Capital Fund II, L.P. (B)	1.30% int.	08/03/00
JUSTRITE MANUFACTURING ACQUISITION CO. A manufacturer of safety products such as storage cabinets and 12% Senior Subordinated Note due 2011 Warrant oversigable until 2011 to purchase	containers. \$ 843,750	12/15/04

common stock at \$.01 per share (B)	594 shs.	12/15/04
-------------------------------------	----------	----------

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

	Principal Amount	
	Shares, Units	
	or Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Percentage	Date
K H O F HOLDINGS, INC.		
A manufacturer of premium disposable tableware products serv	ing 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 cu	stom framing market.	
15.5% Senior Subordinated Note due 2013 (D)	\$ 1,595,057	05/25/06
Common Stock (B)	71,053 shs.	05/25/06
Warrant, exercisable until 2013, to purchase		
common stock at \$.01 per share (B)	43,600 shs.	05/25/06
K P I HOLDINGS, INC.		
The largest player in the U.S. non-automotive, non-ferrous d	ie casting segment.	
18% Senior Subordinated Note due 2014 (D)	\$ 1,115,217	07/16/08
Convertible Preferred Stock Series C (B)	29 shs.	06/30/09
Convertible Preferred Stock Series D (B)	13 shs.	09/17/09
Common Stock (B)	235 shs.	07/15/08
Warrant, exercisable until 2018, to purchase		

^{* 07/16/08} and 09/17/09.

K W P I HOLDINGS CORPORATION

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

A manufacturer and distributor of vinyl windows and patio do	doors th	roughout the	northwestern Unite
18% Senior Subordinated Note due 2014 (D)	\$	1,555,404	03/14/07
Common Stock (B)		123 shs.	03/13/07
Warrant, exercisable until 2019, to purchase			
preferred stock at \$.01 per share (B)		71 shs.	07/07/09

Warrant, exercisable until 2017, to purchase 89 shs. 03/14/07 common stock at \$.01 per share (B)

L H D EUROPE HOLDINGS, INC.

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

16

388 shs.

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)

	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 components use	ed in equipment wh	ich services a va
the oil and gas, mining, and defense markets.		
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	0.5	00/10/00
common stock at \$.01 per share (B)	35 shs.	09/12/08
MATT COMMUNICATIONS OF ONE TWO		
MAIL COMMUNICATIONS GROUP, INC. A provider of mail processing and handling services, lettershop	n services, and cor	mmercial printing
12.5% Senior Subordinated Note due 2014	\$ 516,177	05/04/07
Limited Liability Company Unit (B)	12,763 uts.	*
Warrant, exercisable until 2014, to purchase	12,700 000.	
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	
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
MANIFE TOWN ACCULATED AND AND AND AND AND AND AND AND AND AN		
MAVERICK ACQUISITION COMPANY A manufacturer of capsules that cover the cork and neck of wind	e 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	\$ 179,104	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 address the	_	and related tran
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 overgicable until 2016 to nurchage		

386 shs. 09/07/10

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

	Principal Amount	
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Shares, Units or Ownership Percentage	Acquisition Date
MEDSYSTEMS HOLDINGS LLC		
MEDSISIEMS HOLDINGS LLC A manufacturer of enteral feeding products, such as f	eeding tubes and other produc	ts related to
13% Senior Subordinated Note due 2015		08/29/08
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 a		
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)	U./46 INL.	09/16/08
Warrant, exercisable until 2018, to purchase common stock at \$.01 per share (B)	18 shs.	00/24/00
common secon de quel per suare (2)	10 0110.	03, 21, 00
MICROGROUP, INC. A manufacturer of precision parts and assemblies, and	a value-added summlier of me	tal tubing and
12% Senior Subordinated Note due 2013 (D)	\$ 1,421,795	tal cubing and
Common Stock (B)	238 shs.	*
Warrant, exercisable until 2013, to purchase	230 3113.	
common stock at \$.02 per share (B)	87 shs.	*
-	0 / 5115.	
* 08/12/05 and 09/11/06.		
MILWAUKEE GEAR COMPANY		
A manufacturer of high-precision custom gears and gea industries.	r drives used by original equ	ipment manufac
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		

MOMENTUM HOLDING CO.

A designer and supplier of upholstery fabric to commercial furniture manufacturers and architectu 11.24% int. 08/04/06 Limited Partnership Interest (B) Warrant, exercisable until 2014, to purchase common stock at \$.02 per share (B) 586 shs. 08/04/06

18

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
MONESSEN HOLDING CORPORATION		
A designer and manufacturer of a broad line of gas, wood, and		
14% Senior Subordinated Note due 2014 (D)	\$ 1,350,000	07/25/08
14% PIK Note due 2014 (D) Warrant, exercisable until 2014, to purchase	\$ 419,713	07/25/08
common stock at \$.02 per share (B)	81 shs.	03/31/06
NABCO, INC.		
A producer of explosive containment vessels in the United Sta	ates.	
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	60 1	00/04/06
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 ma	_	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 el	lectric utility, tele	communications,
12% Senior Secured Subordinated Note due 2015	\$ 1,125,000	
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 pre	_	
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	1.300 1110.	02/01/07
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, exercisable until 2014, to purchase	48 shs.	02/02/07
common stock at \$.01 per share (B)	40 SIIS.	02/02/07

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

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

	Principal Amount Shares, Units or Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Percentage	Date
NORTHWEST MAILING SERVICES, INC. A producer of promotional materials for companies that use dir 12% Senior Subordinated Note due 2016 Limited Partnership Interest (B) Warrant, exercisable until 2019, to purchase		
common stock at \$.01 per share (B)	2,603 8118.	^
* 07/09/09 and 08/09/10.		
NYLONCRAFT, INC. A supplier of engineered plastic components for the automotive 10% Senior Secured Note due 2012 15% Senior Subordinated Note due 2012 (D) Convertible Preferred Stock A (B) Common Stock (B) Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)	\$ 464,286 \$ 285,714 571 shs. 178,571 shs.	01/28/02 01/28/02 01/28/02 01/28/02 01/28/02
O E C HOLDING CORPORATION A provider of elevator maintenance, repair and modernization s	services.	
13% Senior Subordinated Note due 2017 Preferred Stock Series A (B) Preferred Stock Series B (B) Common Stock (B)	\$ 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 production defibrilators and stents.	cess equipment for th	ne medical devi
10% Senior Secured Note due 2012	\$ 45,982	01/03/06
13% Senior Subordinated Note due 2013 Common Stock (B)	\$ 392,709 184,176 shs.	01/03/06 01/03/06
Warrant, exercisable until 2013, to purchase	101,170 5115.	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 Br	ritish Columbia	
12% Senior Subordinated Note due 2010 (D)	\$ 511,000	08/07/98
12% Senior Subordinated Note due 2010 (D)	\$ 244,154	02/09/00

20

MassMutual Participation Investors

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONTINUED) September 30, 2010

(Unaudited)

	Principal Amount Shares, Units	
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	or Ownership Percentage	Acquisition Date
ONTARIO DRIVE & GEAR LTD		

ONTARIO DRIVE & GEAR LTD.

A manufacturer of all-wheel drive, off-road amphibious vehicles and related accessories. Limited Liability Company Unit (B) 1,942 uts. 01/17/06

Warrant, exercisable until 2013, to purchase

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 services to the aerospace gas turbine 14% Senior Subordinated Note due 2014 \$ 1,249,031 07/03/06 Preferred Unit (B) 202 uts. 07/03/06 Preferred Unit (B) 36 uts. 07/03/06 Common Unit Class I (B) 78 uts. 07/03/06 17 uts. 07/03/06

P I I HOLDING CORPORATION

A manufacturer of plastic film and bags for the general industrial, medical, and food industries.

12% Senior Subordinated Note due 2013 \$ 1,215,000 03/31/06

Preferred Stock (B) 19 shs. 03/31/06

Common Stock (B) 12 shs. 03/31/06

Warrant, exercisable until 2013, to purchase

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

PACIFIC CONSOLIDATED HOLDINGS LLC

A manufacturer of rugged, mobile liquid and gaseous oxygen and nitrogen generating systems used i and medical sectors.

14% Senior Subordinated Note due 2012	\$ 719 , 041	04/27/07
5% Senior Subordinated Note due 2012	\$ 42,187	07/21/10
Preferred Shares Series E (B)	42,187 shs.	07/21/10
Limited Liability Preferred Unit (B)	928,962 uts.	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

03/31/06

7 shs.

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

Warrant, exercisable until 2014, to purchase

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

	Principal Amount Shares, Units or Ownership	Acquisition
CORPORATE RESTRICTED SECURITIES: (A) (Continued)	Percentage	Date
PEARLMAN ENTERPRISES, INC. A developer and distributor of tools, equipment and suppl Preferred Stock Series A (B) Preferred Stock Series B (B) Common Stock (B)	ies to the natural and e 1,236 shs. 7,059 shs. 21,462 shs.	ngineered stone 05/22/09 05/22/09 05/22/09
POSTLE ALUMINUM COMPANY LLC A manufacturer and distributor of aluminum extruded produ 15% Senior Subordinated Note due 2013	cts. \$ 817,979	06/03/10
3% Senior Subordinated Note due 2013 3% Senior Subordinated PIK Note due 2014 (D)	\$ 1,209,017	10/02/06
Limited Liability Company Unit Class A (B)	733 uts.	10/02/06
Limited Liability Company Unit (B)	76 uts.	05/22/09
Warrant, exercisable until 2016, to purchase	70 465.	03/22/03
common stock at \$.01 per share (B)	4,550 shs.	10/02/06
POWER SERVICES HOLDING COMPANY A provider of industrial motor repair services, predictiv serving the petrochemical, mining, power generation, meta 12% Senior Subordinated Note due 2016	ls, and paper industries \$ 1,255,814	02/11/08
Limited Partnership Interest (B)	12.55% int.	02/11/08
Warrant, exercisable until 2016, to purchase 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 i 14.25% Senior Subordinated Note due 2016 Warrant, exercisable until 2019, to purchase	\$ 1,368,089	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	products.	
13% Senior Subordinated Note due 2013	\$ 922,612	05/28/04
Common Stock (B)	187,500 shs.	05/28/04
Warrant evergicable until 2014 to purchase		

199,969 shs. 05/28/04

22

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
R A J MANUFACTURING HOLDINGS LLC A designer and manufacturer of women's swimwear sold unde 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)	er a variety of licensed & \$ 1,384,011	orand names.
R E I DELAWARE HOLDING, INC. An engineer and manufacturer of highly complex, close tol equipment primarily for aerospace, medical and defense/ra 12% Senior Subordinated Note due 2016 Warrant, exercisable until 2018, to purchase common stock at \$.01 per share (B)		olies, tooling a 01/18/08 01/18/08
ROYAL BATHS MANUFACTURING COMPANY A manufacturer and distributor of acrylic and cultured ma 12.5% Senior Subordinated Note due 2011 Warrant, exercisable until 2011, to purchase common stock at \$.01 per share (B)	rble bathroom products. \$ 562,500 74 shs.	11/14/03 11/14/03
SAFETY SPEED CUT MANUFACTURING COMPANY, INC. A manufacturer of vertical panel saws and routers for the Class B Common Stock (B)	woodworking industry. 846 shs.	06/02/99
SAVAGE SPORTS HOLDING, INC. A manufacturer of sporting firearms. 12% Senior Subordinated Note due 2012 Preferred Stock Series A (B) Common Stock (B)	\$ 814,655 35,038 shs. 324 shs.	09/10/04 05/28/10 *

^{* 09/10/04} and 10/05/07.

Warrant, exercisable until 2012, to purchase

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

71 shs. 09/10/04

Common Stock (B)	69 shs.	01/15/09
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)

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)	\$ 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. 12.25% 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 ca 12.13% Senior Subordinated Note due 2014 Common Stock (B) Warrant, exercisable until 2014, to purchase common stock at \$.02 per share (B)	rpets 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 movies and television shows.

Limited Liability Company Unit Class A (B) 3,405 shs. 03/31/10

SYNTERACT HOLDINGS CORPORATION

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

14.5% Senior Subordinated Note due 2016	\$ 1,381,270	09/02/08
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