

MASSMUTUAL PARTICIPATION INVESTORS

Form N-30D

November 28, 2006

MASSMUTUAL
PARTICIPATION INVESTORS

Report for the
Nine Months Ended September 30, 2006

[LOGO]

ADVISER

BABSON CAPITAL MANAGEMENT LLC
1500 Main Street
Springfield, Massachusetts 01115

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

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

TRANSFER AGENT & REGISTRAR

Shareholder Financial Services, Inc.
P.O. Box 173673
Denver, Colorado 80217-3673
1-800-647-7374

INTERNET WEBSITE: WWW.BABSONCAPITAL.COM/MPV

[LOGO] MassMutual Participation Investors
c/o Babson Capital Management LLC
1500 Main Street, Suite 600
Springfield, Massachusetts 01115
(413) 226-1516

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 the New York Stock Exchange 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 corporate 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 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. 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 quarterly 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](http://www.babsoncapital.com/mpv); and (3) on the SEC's

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

website: <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: <http://www.sec.gov>.

MPV
Listed
NYSE

TO OUR SHAREHOLDERS

October 31, 2006

The following is the September 30, 2006 Quarterly Report of MassMutual Participation Investors (the "Trust"). The Trust's Board of Trustees declared a quarterly dividend of 24 cents per share, payable on November 14, 2006, to shareholders of record on October 30, 2006. A dividend of 24 cents per share was paid in the previous quarter.

U.S. equity markets, as measured by several broad market indices, increased during the quarter ended September 30, 2006. Large stocks, as approximated by the Dow Jones Industrial Average, increased 5.37%, while smaller stocks, as approximated by the Russell 2000 Index, increased 0.44%. For the nine months ended September 30, 2006, returns were 7.73% and 8.69%, respectively. U.S. fixed income markets, as measured by selected indices, posted increased returns during the quarter. The Lehman Brothers Government/Credit Index and the Lehman Brothers U.S. Corporate High Yield Index increased 3.91% and 4.07%, respectively, for the quarter. For the nine months ended September 30, 2006, returns were 2.71% and 7.34%, respectively.

For the quarter ended September 30, 2006, the Trust earned 26 cents per share. The Trust earned 26 cents per share in the previous quarter this year. The Trust's net assets as of September 30, 2006 totaled \$132,677,953 or \$13.55 per share compared to \$129,932,933 or \$13.29 per share on June 30, 2006. This translated into a portfolio return of 3.81% for the quarter and 15.13% for the nine months ended September 30, 2006 based on the change in the Trust's net assets assuming the reinvestment of all dividends. Long term, the Trust's portfolio had average annualized returns of 23.31%, 18.89%, and 14.45% for the 1-, 5-, and 10- year periods ended September 30, 2006, respectively, based on the change in net assets assuming reinvestment of all dividends.

During the quarter, the Trust made private placement investments in four new issuers and closed two "follow on" investments, totaling approximately \$4.7 million. The follow on investments purchased by the Trust were in MicroGroup, Inc. and Terra Renewal Services, Inc. The four issuers added to the portfolio were Momentum Holding Co., Morton Industrial Group, Inc., P A S Holdco LLC, and Stanton Carpet Holding Co. The weighted average coupon of these investments was 12.37%. (A brief description of these investments can be found in the Consolidated Schedule of Investments.)

Finally, the Trust is sad to report the passing of our good friend and colleague Jack Laughery. Jack had loyally served the Trust and its shareholders as a Trustee for over 10 years. His contributions and wit will be missed.

Thank you for your continued interest in and support of MassMutual Participation Investors.

Sincerely,

/s/ Clifford M. Noreen

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

Clifford M. Noreen
President

[PIE CHART APPEARS HERE]

PORTFOLIO COMPOSITION AS OF 09/30/06*

Private/Restricted Equity 14.7%
Cash & Short Term Investments 8.9%
Public High Yield Debt 23.5%
Private High Yield Debt 46.7%
Public Equity 0.1%
Private Investment Grade Debt 6.1%

*Based on market value of total investments

1

CONSOLIDATED STATEMENT OF ASSETS AND LIABILITIES

MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

Assets:

Investments

(See Consolidated Schedule of Investments)

Corporate restricted securities at fair value

(Cost - \$98,757,888)

\$ 98,586,743

Corporate public securities at market value

(Cost - \$34,462,744)

34,383,132

Short-term securities at amortized cost

8,599,658

141,569,533

Cash

4,422,386

Interest receivable

2,764,347

Receivable for investments sold

1,295,086

Other assets

6,326

TOTAL ASSETS

\$ 150,057,678

Liabilities:

Payable for investments purchased

\$ 4,343,836

Investment advisory fee payable

298,525

Note payable

12,000,000

Interest payable

272,282

Accrued expenses

176,779

Accrued taxes payable

288,303

TOTAL LIABILITIES

17,379,725

TOTAL NET ASSETS

\$ 132,677,953
=====

Net Assets:

Common shares, par value \$.01 per share; an unlimited

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

number authorized	\$	97,911
Additional paid-in capital		90,770,104
Retained net realized gain on investments, prior years		25,860,275
Undistributed net investment income		3,975,363
Accumulated net realized gain on investments		12,396,022
Net unrealized depreciation of investments		(421,722)

TOTAL NET ASSETS	\$	132,677,953
		=====
COMMON SHARES ISSUED AND OUTSTANDING		9,791,141
		=====
NET ASSET VALUE PER SHARE	\$	13.55
		=====

See Notes to Consolidated Financial Statements.

2

CONSOLIDATED STATEMENT OF OPERATIONS MASSMUTUAL PARTICIPATION INVESTORS

For the nine months ended September 30, 2006
(Unaudited)

Investment Income:		
Interest	\$	8,913,480
Dividends		500,856

TOTAL INVESTMENT INCOME		9,414,336

Expenses:		
Investment advisory fees		874,216
Interest		549,945
Trustees' fees and expenses		93,000
Reports to shareholders		65,000
Professional fees		57,000
Transfer agent/registrar's expenses		11,400
Other		22,335

TOTAL EXPENSES		1,672,896

INVESTMENT INCOME - net		7,741,440

Net realized and unrealized gain (loss) on investments:		
Net realized gain on investments before taxes		11,875,682
Income tax expense		(178,074)

Net realized gain on investments		11,697,608
Net change in unrealized appreciation of investments before taxes		(1,757,668)
Net change in deferred income tax expense		4,449

Net change in unrealized appreciation of investments		(1,753,219)
NET GAIN ON INVESTMENTS		9,944,389

NET INCREASE IN NET ASSETS RESULTING FROM OPERATIONS	\$	17,685,829
		=====

See Notes to Consolidated Financial Statements.

3

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

CONSOLIDATED STATEMENT OF CASH FLOWS

MASSMUTUAL PARTICIPATION INVESTORS

For the nine months ended September 30, 2006
(Unaudited)

Net increase in cash:	
Cash flows from operating activities:	
Interest and dividends received	\$ 8,460,604
Interest expense paid	(375,945)
Operating expenses paid	(1,125,422)
Income taxes paid	(3,599,264)
NET CASH PROVIDED BY OPERATING ACTIVITIES	3,359,973
Cash flows from investing activities:	
Purchases/Proceeds/Maturities from short-term portfolio securities, net	6,198,008
Purchases of portfolio securities	(32,193,019)
Proceeds from disposition of portfolio securities	31,144,217
NET CASH PROVIDED BY INVESTING ACTIVITIES	5,149,206
NET CASH PROVIDED BY OPERATING AND INVESTING ACTIVITIES	8,509,179
Cash flows from financing activities:	
Cash dividends paid from net investment income	(7,515,740)
Receipts for shares issued on reinvestment of dividends	663,071
NET CASH USED FOR FINANCING ACTIVITIES	(6,852,669)
NET INCREASE IN CASH	1,656,510
Cash - beginning of year	2,765,876
CASH - END OF PERIOD	\$ 4,422,386

RECONCILIATION OF NET INCREASE IN NET ASSETS TO NET CASH PROVIDED BY OPERATING AND INVESTING ACTIVITIES:

NET INCREASE IN NET ASSETS RESULTING FROM OPERATIONS	\$ 17,685,829
Increase in investments	(9,149,637)
Increase in interest and dividends receivable	(319,828)
Increase in receivable for investments sold	(809,819)
Decrease in other assets	6,454
Increase in payable for investments purchased	4,343,836
Increase in investment advisory fee payable	30,732
Increase in interest payable	174,000
Decrease in accrued expenses	(26,749)
Decrease in accrued taxes payable	(3,425,639)
TOTAL ADJUSTMENTS TO NET ASSETS FROM OPERATIONS	(9,176,650)
NET CASH PROVIDED BY OPERATING AND INVESTING ACTIVITIES	\$ 8,509,179

See Notes to Consolidated Financial Statements.

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

CONSOLIDATED STATEMENTS OF
CHANGES IN NET ASSETS

MASSMUTUAL PARTICIPATION INVESTORS

	For the nine months ended 09/30/2006 (Unaudited)	For the year ended 12/31/2005
	-----	-----
Increase in net assets:		
OPERATIONS:		
Investment income - net	\$ 7,741,440	\$ 9,643,28
Net realized gain on investments	11,697,608	8,306,07
Net change in unrealized appreciation (depreciation) of investments	(1,753,219)	2,350,51
	-----	-----
Net increase in net assets resulting from operations	17,685,829	20,299,87
Net increase from common shares issued on reinvestment of dividends Common shares issued (2006 - 46,911; 2005 - 71,671)	663,071	927,72
Dividends to shareholders from:		
Net investment income (2006 - \$0.48 per share; 2005 - \$1.01 per share)	(4,689,913)	(9,818,64
	-----	-----
TOTAL INCREASE IN NET ASSETS	13,658,987	11,408,95
NET ASSETS, BEGINNING OF YEAR	119,018,966	107,610,00
	-----	-----
NET ASSETS, END OF PERIOD/YEAR (including undistributed net investment income of \$3,975,363 and \$923,836, respectively)	\$ 132,677,953	\$ 119,018,96
	=====	=====

See Notes to Consolidated Financial Statements.

5

CONSOLIDATED SELECTED FINANCIAL HIGHLIGHTS MASSMUTUAL PARTICIPATION INVESTORS

Selected data for each share of beneficial interest outstanding:

	For the nine months ended 09/30/2006 (Unaudited)	For the years ended Dec		
	-----	2005	2004	2003
	-----	-----	-----	-----
Net asset value:				
Beginning of year	\$ 12.21	\$ 11.13	\$ 9.84	\$ 8.78
	-----	-----	-----	-----
Net investment income (a)	0.79	0.99	1.00	0.80
Net realized and unrealized gain (loss) on investments	1.02	1.09 (b)	1.36	1.21
	-----	-----	-----	-----
Total from investment operations	1.81	2.08	2.36	2.01
	-----	-----	-----	-----
Dividends from net investment income to common shareholders	(0.48)	(1.01)	(1.10)	(0.96)

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

Change from issuance of shares	0.01	0.01	0.03	0.01
Total distributions	(0.47)	(1.00)	(1.07)	(0.95)
Net asset value:				
End of period/year	\$ 13.55	\$ 12.21	\$ 11.13	\$ 9.84
Per share market value:				
End of period/year	\$ 15.38	\$ 14.05	\$ 13.31	\$ 11.65
Total investment return				
Market value	15.13%	17.25%	25.77%	35.50%
Net asset value (c)	13.06%	22.51%	25.14%	23.72%
Net assets (in millions):				
End of period/year	\$ 132.68	\$ 119.02	\$ 107.61	\$ 94.40
Ratio of operating expenses to average net assets	1.19% (d)	1.45%	1.63%	1.65%
Ratio of interest expense to average net assets	0.58% (d)	0.80%	0.89%	0.97%
Ratio of total expenses to average net assets	1.77% (d)	2.25%	2.52%	2.62%
Ratio of net investment income to average net assets	8.20% (d)	8.45%	9.60%	8.55%
Portfolio turnover	25.64%	31.50%	51.25%	55.08%

(a) Calculated using average shares.

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

(c) Net asset value return represents portfolio returns based on change in the Trust's net asset value including all dividends and distributions which differs from the total investment return based on the market value of its shares outstanding. The difference between the Trust's net asset value and the market value of its shares outstanding is due to the difference between the Trust's net asset value and the market value of its shares outstanding at the end of the period of future results.

(d) Annualized.

Senior securities:

Total principal amount (in millions)	\$ 12	\$ 12	\$ 22.5	\$ 22.5
Asset coverage per \$1,000 of indebtedness	\$ 12,056	\$ 10,918	\$ 5,783	\$ 5,195

See Notes to Consolidated Financial Statements.

6

CONSOLIDATED SCHEDULE OF INVESTMENTS

MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

CORPORATE RESTRICTED SECURITIES - 74.31%: (A)

Shares, Units, Warrants, Ownership or Principal Amount	Acquisit Date
-----	-----

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

PRIVATE PLACEMENT INVESTMENTS - 69.19%

A T I ACQUISITION COMPANY

A for-profit post-secondary school serving students in Texas, Florida and Arizona.

12% Senior Subordinated Note due 2012	\$ 1,125,000	04/08/0
Warrant, exercisable until 2012, to purchase common stock at \$.02 per share (B)	1,230 shs.	04/08/0
Warrant, exercisable until 2012, to purchase preferred stock at \$.01 per share (B)	33,505 shs.	03/23/0

ADORN, INC.

A manufacturer of wall panels, cabinets, moldings and countertops for houses and recreational vehicles.

12.5% Subordinated Note due 2010	\$ 1,125,000	02/29/0
Warrant, exercisable until 2010, to purchase common stock at \$.02 per share (B)	192 shs.	02/29/0

AMERCABLE, INC.

A manufacturer of electric power, instrumentation and control cables, primarily for the mining and oil and gas industries.

12% Senior Subordinated Note due 2013	\$ 583,333	04/08/0
Limited Partnership Interest (B)	0.19% int.	04/07/0
Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)	66 shs.	04/08/0

AMERICAN HOSPICE MANAGEMENT HOLDING LLC

A for-profit hospice care provider in the United States.

12% Senior Subordinated Note due 2010	\$ 1,125,000	01/22/0
Preferred Class A Unit (B)	1,706 uts.	
Common Class B Unit	16,100 uts.	01/22/0
Common Class D Unit (B)	3,690 uts.	09/12/0

ARROW TRU-LINE HOLDINGS, INC.

A manufacturer of hardware for residential and commercial overhead garage doors in North America.

12% Senior Subordinated Note due 2012	\$ 861,702	05/18/0
Common Stock (B)	263 shs.	05/18/0
Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)	69 shs.	05/18/0

AUGUSTA SPORTSWEAR HOLDING CO.

A manufacturer and distributor of athletic apparel, activewear and team uniforms.

12% Senior Subordinated Note due 2012	\$ 893,000	12/31/0
Common Stock (B)	275 shs.	*
Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)	73 shs.	12/31/0

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

*01/22/04 and 09/12/06.
 **12/31/04, 03/31/05 and 05/02/06.

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
 (Unaudited)

	Shares, Units, Warrants, Ownership or Principal Amount	Acquisit Date
CORPORATE RESTRICTED SECURITIES (A) (Continued)	-----	-----
BETA BRANDS LTD.		
A manufacturer of hard candy and chocolate-coated products sold primarily to the Canadian market.		
5% Promissory Note due 2009 (B)	\$ 96,698	03/31/0
Warrant, exercisable until 2009, to purchase common stock at \$.01 per share (B)	2,421 shs.	03/31/0
BRAVO SPORTS HOLDING CORPORATION		
A designer and marketer of niche branded consumer products including canopies, trampolines, in-line skates, skateboards, and urethane wheels.		
12.5% Senior Subordinated Note due 2014	\$ 1,207,902	06/30/0
Preferred Stock Class A (B)	465 shs.	06/30/0
Common Stock (B)	1 shs.	06/30/0
Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	164 shs.	06/30/0
C & J SPEC-RENT SERVICES, INC.		
A provider of coiled tubing and pressure pumping services to the oil and gas industry in Texas and Louisiana.		
10% Senior Secured Term Note due 2012	\$ 886,597	08/12/0
14% Senior Subordinated Note due 2013	\$ 656,406	08/12/0
Common Stock (B)	268,657 shs.	08/12/0
Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)	49,552 shs.	08/12/0
CAINS FOODS, L.P.		
A producer of mayonnaise and sauce products for both the retail and food service markets.		
Limited Partnership Interest (B)	1.81% int.	09/29/9
CAPESUCCESS LLC		
A provider of diversified staffing services.		
Preferred Membership Interests (B)	806 uts.	04/29/0
Common Membership Interests (B)	10,421 uts.	04/29/0

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

CAPITAL SPECIALTY PLASTICS, INC.

A producer of desiccant strips used for packaging pharmaceutical products.

Common Stock (B)

55 shs.

*12/30/97 and 05/29/99.

8

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

	Shares, Units, Warrants, Ownership or Principal Amount	Acquisit Date
CORPORATE RESTRICTED SECURITIES (A) (Continued)	-----	-----
COEUR, INC.		
A producer of proprietary, disposable power injection syringes.		
8.75% Senior Secured Term Note due 2010	\$ 264,493	04/30/0
11.5% Senior Subordinated Note due 2011	\$ 242,754	04/30/0
Common Stock (B)	72,463 shs.	04/30/0
Warrant, exercisable until 2010, to purchase common stock at \$.01 per share (B)	50,099 shs.	04/30/0
COINING CORPORATION OF AMERICA LLC		
A manufacturer of close tolerance parts and metal stampings.		
10.74% Senior Secured Revolving Credit Facility due 2007 (C)	\$ 61,728	01/07/0
10.74% Senior Secured Tranche A Note due 2007 (C)	\$ 434,222	06/26/0
13% Senior Secured Tranche B Note due 2008 Limited Partnership Interest (B)	\$ 370,370	06/26/0
Warrant, exercisable until 2008, to purchase common stock at \$.01 per share (B)	3.65% int.	06/26/0
	61,163 shs.	06/26/0
CONNOR SPORT COURT INTERNATIONAL, INC.		
A designer and manufacturer of outdoor and indoor synthetic sports flooring and other temporary flooring products.		
12% Senior Subordinated Note due 2012 (D)	\$ 1,059,417	
Limited Partnership Interest (B)	4.43% int.	*
Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)	92 shs.	
CONSOLIDATED FOUNDRIES HOLDINGS		
A manufacturer of engineered cast metal components for the global aerospace and defense industries.		
12% Senior Subordinated Note due 2013	\$ 1,157,143	06/15/0
Common Stock (B)	269 shs.	**

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)	54 shs.	06/15/0
---	---------	---------

COREPHARMA LLC

A manufacturer of oral dose generic pharmaceuticals
targeted at niche applications.

12% Senior Subordinated Note due 2013	\$ 1,350,000	08/04/0
Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)	10 shs.	08/04/0

*08/12/04 and 01/18/05.

**08/12/04 and 01/14/05.

***06/15/05 and 05/22/06.

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

	Shares, Units, Warrants, Ownership or Principal Amount	Acquisit Date
CORPORATE RESTRICTED SECURITIES (A) (Continued)	-----	-----

CORVEST GROUP, INC.

A manufacturer and distributor of promotional products.

12% Senior Subordinated Note due 2009 (D)	\$ 2,045,455	
Common Stock (B)	30 shs.	
Limited Partnership Interest (B)	10.23% int.	
Warrant, exercisable until 2007, to purchase common stock at \$.01 per share (B)	171 shs.	

DEXTER MAGNETICS TECHNOLOGIES, INC.

A designer, fabricator, assembler and distributor of
industrial magnets and subassemblies in North America
and Europe.

Common Stock	310 shs.	07/19/0
Warrant, exercisable until 2006, to purchase common stock at \$.01 per share	157 shs.	07/19/0

DIRECTED ELECTRONICS, INC.

A designer and distributor of brand name
automotive security systems, audio products and
installation accessories.

Common Stock (B)	126,817 shs.	12/19/0
Limited Partnership Interest (B)	4.61% int.	*

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

DIVERSCO, INC./DHI HOLDINGS, INC.

A contract provider of janitorial and equipment maintenance services and temporary production labor to industrial customers.

Membership Interests of MM/Lincap

Diversco Investments Ltd. LLC (B)	13.57% int.	08/27/99
Preferred Stock (B)	1,639 shs.	12/14/00
Warrants, exercisable until 2011, to purchase common stock of DHI Holdings, Inc. at \$.01 per share (B)	6,676 shs.	**

DWYER GROUP, INC.

A franchiser of a variety of home repair services.

14% Senior Subordinated Note due 2011	\$ 984,375	10/30/00
Common Stock (B)	3,656 shs.	***
Warrant, exercisable until 2011, to purchase common stock at \$.01 per share (B)	1,077 shs.	10/30/00

*03/05/99 and 03/24/99.

**12/22/99 and 09/14/05.

***10/24/96 and 08/28/98.

****10/30/03 and 01/02/04.

10

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006

(Unaudited)

	Shares, Units, Warrants, Ownership or Principal Amount	Acquisit Date
CORPORATE RESTRICTED SECURITIES (A) (Continued)		
E X C ACQUISITION CORPORATION		
A manufacturer of pre-filled syringes and pump systems used for intravenous drug delivery.		
Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	11 shs.	06/28/00
EAGLE PACK PET FOODS, INC.		
A manufacturer of premium pet food sold through independent pet stores.		
12% Senior Subordinated Note due 2011	\$ 803,572	
Warrant, exercisable until 2011, to purchase common stock at \$.02 per share	2,163 shs.	09/24/00
EAST RIVER VENTURES I, L.P.		
An acquirer of controlling or substantial interests in other entities.		
Limited Partnership Interest (B)	0.03% int.	01/01/00

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

ENZYMATIC THERAPY, INC.

A manufacturer and distributor of branded natural medicines and nutritional supplements.

Limited Partnership Interest (B)	0.70% int.	03/30/0
Warrant, exercisable until 2009, to purchase common stock at \$.01 per share (B)	15,415 shs.	03/30/0

EURO-PRO CORPORATION

A designer, marketer and distributor of floor care, steam cleaning and small kitchen products and appliances.

13.25% Senior Subordinated Note due 2011	\$ 1,125,000	09/09/0
16.03% Overdue Interest Secured Note due 2008 (C)	\$ 75,952	01/13/0
Warrant, exercisable until 2011, to purchase common stock at \$.01 per share (B)	23,229 shs.	09/09/0

EVANS CONSOLES, INC.

A designer and manufacturer of consoles and control center systems.

Common Stock (B)	45,000 shs.	05/06/0
------------------	-------------	---------

F H S HOLDINGS LLC

A national provider of customized disease management services to large, self-insured employers.

12% Senior Subordinated Note due 2014	\$ 1,265,625	06/01/0
Preferred Unit (B)	84 uts.	06/01/0
Common Unit (B)	844 uts.	06/01/0
Common Unit Class B (B)	734 shs.	06/01/0

*09/24/04 and 4/20/06.

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

	Shares, Units, Warrants, Ownership or Principal Amount	Acquisit Date
CORPORATE RESTRICTED SECURITIES (A) (Continued)	-----	-----

FLUTES, INC.

An independent manufacturer of micro fluted corrugated sheet material for the food and consumer products packaging industries.

10% Senior Secured Term Note due 2013	\$ 524,791	04/13/0
14% Senior Subordinated Note due 2014	\$ 314,029	04/13/0
Common Stock (B)	62,535 shs.	04/13/0
Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	17,680 shs.	04/13/0

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

FOWLER HOLDING, INC.

A provider of site development services to residential homebuilders and developers in the Raleigh/Durham region of North Carolina.

12% Senior Subordinated Note due 2013	\$ 1,252,174	02/03/0
Common Stock (B)	98 shs.	02/03/0
Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)	135 shs.	02/03/0

FUEL SYSTEMS HOLDING CORPORATION

An independent North American supplier of fuel tanks for a wide variety of commercial vehicles.

12% Senior Subordinated Note due 2014	\$ 1,237,500	01/31/0
Common Stock (B)	112,500 shs.	01/31/0
Warrant, exercisable until 2016, to purchase common stock at \$.01 per share (B)	73,275 shs.	01/31/0

H M HOLDING COMPANY

A designer, manufacturer, and importer of promotional and wood furniture.

12% Senior Subordinated Note due 2013	\$ 1,170,000	02/10/0
Common Stock (B)	180 shs.	02/10/0
Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)	67 shs.	02/10/0

HIGHGATE CAPITAL LLC

An acquirer of controlling or substantial interests in manufacturing and marketing entities.

Series A Preferred Units (B)	0.30% int.	07/21/9
------------------------------	------------	---------

HOME DECOR HOLDING COMPANY

A designer, manufacturer and marketer of framed art and wall decor products.

12.5% Senior Subordinated Note due 2012	\$ 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.

12

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

	Shares, Units, Warrants, Ownership or Principal Amount	Acquisit Date
CORPORATE RESTRICTED SECURITIES (A) (Continued)		

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

INTEGRATION TECHNOLOGY SYSTEMS, INC.

A manufacturer of steel protective computer and network systems for the industrial and office environments.

12% Senior Secured Note due 2007	\$	949,004	03/01/0
Common Stock (B)		130 shs.	06/01/0

ITC^DELTACOM, INC.

A provider of integrated communications services in the southeastern United States.

13.63% Senior Secured Note due 2009 (C)	\$	1,179,095	07/26/0
17.13% Senior Secured Note due 2009 (C)	\$	189,668	07/26/0
Warrant, exercisable until 2009, to purchase convertible preferred stock at \$.01 per share (B)		54,468 shs.	07/26/0

JASON, INC.

A diversified manufacturing company serving various industrial markets.

13% Senior Subordinated Note due 2008	\$	510,187	08/04/0
14% Cumulative Redeemable Preferred Stock Series A (B) Limited Partnership Interest of Saw Mill Capital Fund II, L.P. (B)		153 shs.	08/04/0
Warrants, exercisable until 2008 and 2009, to purchase common stock at \$.01 per share (B)		1.30% int.	08/03/0
		26,931 shs.	08/04/0

JUSTRITE MANUFACTURING ACQUISITION CO.

A manufacturer of safety products such as storage cabinets and containers.

12% Senior Subordinated Note due 2011	\$	843,750	12/15/0
Warrant, exercisable until 2011, to purchase common stock at \$.01 per share (B)		594 shs.	12/15/0

K N B HOLDINGS CORPORATION

A designer, manufacturer and marketer of products for the custom framing market.

13.5% Senior Subordinated Note due 2013	\$	1,280,865	05/25/0
Common Stock (B)		71,053 shs.	05/25/0
Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)		43,600 shs.	05/25/0

KEEPSAKE QUILTING, INC.

A seller of quilting fabrics, books, patterns, kits and notions to consumers.

8.89% Senior Secured Revolving Note due 2007 (C)	\$	52,418	06/16/0
8.89% Senior Secured Tranche A Note due 2007 (C)	\$	117,941	07/19/0
12% Senior Secured Tranche B Note due 2008	\$	314,509	06/16/0
Limited Partnership Interest of Riverside XVI Holding Company, L.P. (B)		3.02% int.	06/12/0
Warrant, exercisable until 2008, to purchase common stock at \$.01 per share (B)		633 shs.	06/12/0

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

 CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
 (Unaudited)

CORPORATE RESTRICTED SECURITIES (A) (Continued)	Shares, Units, Warrants, Ownership or Principal Amount	Acquisit Date
	-----	-----
KELE AND ASSOCIATES, INC.		
A distributor of building automation control products.		
12% Senior Subordinated Note due 2012	\$ 969,643	02/27/0
Preferred Stock (B)	12 shs.	11/24/0
Common Stock (B)	6 shs.	02/27/0
Warrant, exercisable until 2012, to purchase common stock at \$.02 per share (B)	6 shs.	02/27/0
KEYSTONE NORTH AMERICA, INC.		
An operator of funeral homes in North America.		
Common Stock	28,577 shs.	02/08/0
LIH INVESTORS, L.P.		
A manufacturer and marketer of a broad line of external accessories for new and used sport utility vehicles, trucks and vans.		
12.5% Senior Subordinated Note due 2008	\$ 2,036,000	
Common Stock (B)	3,057 shs.	
Warrant, exercisable until 2006, to purchase common stock at \$.11 per share (B)	8,245 shs.	
MAGNATECH INTERNATIONAL, INC.		
A supplier of process equipment and related parts used in the manufacturing of medium and high-pressure reinforced hoses.		
12% Senior Subordinated Note due 2014	\$ 675,000	04/05/0
13% Preferred Stock (B)	299 shs.	04/05/0
Common Stock (B)	66 shs.	04/05/0
Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	7 shs.	04/05/0
MAVERICK ACQUISITION COMPANY		
A manufacturer of capsules that cover the cork and neck of wine bottles.		
9.98% Senior Secured Tranche A Note due 2010 (C)	\$ 397,783	09/03/0
12% Senior Secured Tranche B Note due 2011	\$ 179,104	09/03/0
Limited Partnership Interest (B)	4.48% int.	09/03/0

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

Warrant, exercisable until 2011, to purchase common stock at \$.01 per share (B)	243 shs.	09/03/0
---	----------	---------

MAXON CORPORATION

A manufacturer of industrial combustion equipment and related shut-off valves and control valves.

12% Senior Subordinated Note due 2012	\$ 549,837	09/30/0
8.75% Senior Subordinated Note due 2012	\$ 660,322	09/30/0
Common Stock (B)	218,099 shs.	09/30/0
Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)	87,755 shs.	09/30/0

*12/23/98 and 01/28/99.

14

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

	Shares, Units, Warrants, Ownership or Principal Amount	Acquisit Date
CORPORATE RESTRICTED SECURITIES (A) (Continued)	-----	-----

MEDASSIST, INC.

A provider of patient eligibility and accounts receivable management services to hospitals and physician practices.

8% Preferred Stock (B)	44 shs.	10/28/0
Common Stock (B)	13,863 shs.	10/28/0
Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)	47,090 shs.	05/01/0

MICROGROUP, INC.

A manufacturer of precision parts and assemblies, and a value-added supplier of metal tubing and bars.

12% Senior Subordinated Note due 2013	\$ 1,421,795	
Common Stock (B)	238 shs.	
Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)	87 shs.	

MOMENTUM HOLDING CO.

A designer and supplier of upholstery fabric to commercial furniture manufacturers and architectural and design firms.

12% Senior Subordinated Note due 2014	\$ 618,802	08/04/0
Limited Partnership Interest (B)	56,198 uts.	08/04/0
Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	586 shs.	08/04/0

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

MONESSEN HOLDING CORPORATION

A designer and manufacturer of a broad line of gas, wood and electric hearth products and accessories.

12% Senior Subordinated Note due 2014	\$ 1,350,000	03/31/0
Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	81 shs.	03/31/0

MORTON INDUSTRIAL GROUP, INC.

A manufacturer of highly engineered metal fabricated components.

12% Senior Subordinated Note due 2014	\$ 1,292,246	08/25/0
Common Stock (B)	57,754 shs.	08/25/0
Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	91,923 shs.	08/25/0

*08/12/05 and 09/11/06.

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

	Shares, Units, Warrants, Ownership or Principal Amount	Acquisit Date
CORPORATE RESTRICTED SECURITIES (A) (Continued)	-----	-----
 MOSS, INC.		
A manufacturer and distributor of large display and exhibit structures.		
9.48% Senior Secured Revolving Note due 2010 (C)	\$ 54,941	07/03/0
9.48% Senior Secured Tranche A Note due 2010 (C)	\$ 550,000	12/21/0
12% Senior Secured Tranche B Note due 2010	\$ 200,000	12/21/0
Limited Partnership Interest of Riverside Capital Appreciation Fund I, L.P. (B)	19.20% int.	
Warrant, exercisable until 2010, to purchase common stock at \$.01 per share (B)	122 shs.	12/21/0
 NABCO, INC.		
A producer of explosive containment vessels in the United States.		
12% Senior Subordinated Note due 2014	\$ 330,882	02/24/0
Limited Partnership Interest (B)	344 uts.	02/24/0
Warrant, exercisable until 2016, to purchase common stock at \$.01 per share (B)	26 shs.	02/24/0

NEFF MOTIVATION, INC.

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

A manufacturer and distributor of customized awards and sportswear to schools.

12.5% Senior Subordinated Note due 2011	\$	562,500		01/31/00
Warrant, exercisable until 2011, to purchase common stock at \$.01 per share (B)			112 shs.	01/31/00

NONNI'S FOOD COMPANY

A producer and distributor of premium biscotti and bagel chips in North America.

12.25% Senior Subordinated Note due 2012	\$	986,538		03/29/00
10% Preferred Stock (B)			135 shs.	03/29/00
Common Stock (B)			3,418 shs.	03/29/00
Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)			4,565 shs.	03/29/00

NYLONCRAFT, INC.

A supplier of engineered plastic components for the automotive industry.

9% Senior Secured Note due 2009	\$	464,286		01/28/00
11.5% Senior Subordinated Note due 2012	\$	857,143		01/28/00
Common Stock (B)			178,571 shs.	01/28/00
Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)			138,928 shs.	01/28/00

*09/20/00 and 05/23/02.

16

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

		Shares, Units, Warrants, Ownership or		Acquisit Date
CORPORATE RESTRICTED SECURITIES (A) (Continued)		Principal Amount	-----	-----

O R S NASCO HOLDING, INC.

A wholesale distributor of industrial supplies in North America.

13% Senior Subordinated Note due 2013	\$	1,256,152		12/20/00
Common Stock (B)			93,848 shs.	12/20/00
Warrant, exercisable until 2015, to purchase common stock at \$.01 per share (B)			52,820 shs.	12/20/00

OAKRIVER TECHNOLOGY, INC.

Designs, engineers and assembles high precision automated process equipment for the medical device industry, with a focus on defibrillators and stents.

10% Senior Secured Note due 2012	\$	323,115		01/03/00
----------------------------------	----	---------	--	----------

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

13% Senior Subordinated Note due 2013	\$	392,709	01/03/0
Common Stock (B)		184,176 shs.	01/03/0
Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)		41,249 shs.	01/03/0

OLYMPIC SALES, INC.

A boat retailer in Washington state, Oregon, California and British Columbia.

12% Senior Subordinated Note due 2008	\$	1,193,154	*
Limited Partnership Interest of Riverside VIII, VIII-A and VIII-B Holding Company, L.P.		10.66% int.	
Warrants, exercisable until 2007 and 2008, to purchase common stock at \$.01 per share (B)		15,166 shs.	*

ONTARIO DRIVE & GEAR LTD.

A manufacturer of all-wheel drive, off-road amphibious vehicles and related accessories.

13% Senior Subordinated Note due 2013	\$	1,047,115	01/17/0
Limited Partnership Interest (B)		1,942 uts.	01/17/0
Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)		328 shs.	01/17/0

OVERTON'S HOLDING COMPANY

A marketer of marine and water sports accessories in the United States.

12% Senior Subordinated Note due 2014	\$	962,104	04/28/0
Common Stock (B)		50 shs.	04/28/0
Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)		49 shs.	04/28/0

*08/07/98, 02/23/99, 12/22/99 and 02/25/03.

**08/07/98 and 02/29/00.

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

		Shares, Units, Warrants, Ownership or Principal Amount	Acquisit Date
CORPORATE RESTRICTED SECURITIES (A) (Continued)		-----	-----

P A S HOLDCO LLC

An independent provider of maintenance, repair and overhaul services to the aerospace gas turbine engine and airframe markets.

14% Senior Subordinated Note due 2014	\$	1,147,684	07/03/0
Preferred Unit (B)		202 uts.	07/03/0

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

Preferred Unit (B)	36 uts.	07/03/0
Common Unit Class I (B)	78 uts.	07/03/0
Common Unit Class L (B)	17 uts.	07/03/0

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	03/31/0
Preferred Stock (B)	19 shs.	03/31/0
Common Stock (B)	12 shs.	03/31/0
Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)	7 shs.	03/31/0

PARADIGM PACKAGING, INC.

A manufacturer of plastic bottles and closures for the nutritional, pharmaceutical, personal care and food packaging markets.

12% Senior Subordinated Note due 2008	\$ 1,125,000	12/19/0
Membership Interests of MM/Lincap PPI Investments, Inc., LLC (B)	1.28% int.	12/21/0

PROTEIN GENETICS, INC.

A producer of bovine artificial insemination products, related breeding and healthcare products and specialty genetics sold to the dairy and beef industries.

9.8% Redeemable Exchangeable Preferred Stock (B)	332 shs.	08/12/9
Common Stock (B)	867 shs.	

QUALIS AUTOMOTIVE LLC

A distributor of aftermarket automotive brake and chassis products.

12% Senior Subordinated Note due 2012	\$ 937,500	05/28/0
Common Stock	187,500 shs.	05/28/0
Warrant, exercisable until 2012, to purchase common stock at \$.01 per share	199,969 shs.	05/28/0

QUALSERV CORPORATION

A provider of foodservice equipment and supplies to major restaurant chains and their franchisees.

14% Senior Subordinated Note due 2012 (D)	\$ 1,002,475	07/09/0
Limited Partnership Interest (B)	4.90% int.	07/09/0
Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)	280 shs.	07/09/0

*11/14/01 and 08/12/94.

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

CORPORATE RESTRICTED SECURITIES (A) (Continued)	Shares, Units, Warrants, Ownership or Principal Amount -----	Acquisit Date -----
RADIAC ABRASIVES, INC.		
A manufacturer of bonded abrasive and super abrasive grinding wheels in the United States.		
12% Senior Subordinated Note due 2014	\$ 1,196,809	02/10/0
Common Stock (B)	153,191 shs.	02/10/0
Warrant, exercisable until 2016, to purchase common stock at \$.01 per share (B)	69,647 shs.	02/10/0
RIVER RANCH FRESH FOODS LLC		
A supplier of fresh produce to the retail and foodservice channels.		
13% Senior Subordinated Note due 2011 (D)	\$ 975,000	09/29/0
Limited Partnership Interest (B)	21,500 uts.	09/29/0
Warrant, exercisable until 2011, to purchase common stock at \$.01 per share (B)	12,481 shs.	09/29/0
ROYAL BATHS MANUFACTURING COMPANY		
A manufacturer and distributor of acrylic and cultured marble bathroom products.		
12.5% Senior Subordinated Note due 2011	\$ 562,500	11/14/0
Warrant, exercisable until 2011, to purchase common stock at \$.01 per share (B)	74 shs.	11/14/0
SAFETY SPEED CUT MANUFACTURING COMPANY, INC.		
A manufacturer of vertical panel saws and routers for the wood working industry.		
8.73% Senior Secured Tranche A Note due 2007 (C)	\$ 242,283	06/02/9
12% Senior Secured Tranche B Note due 2007	\$ 646,089	06/02/9
Class B Common Stock (B)	846 shs.	06/02/9
SAVAGE SPORTS HOLDING, INC.		
A manufacturer of sporting firearms.		
12% Senior Subordinated Note due 2012	\$ 814,655	09/10/0
Common Stock (B)	310 shs.	09/10/0
Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)	71 shs.	09/10/0
SPECIALTY FOODS GROUP, INC.		
A manufacturer and distributor of branded meat products.		
Limited Partnership Interest of MHD Holdings LLC	0.76% int.	08/29/0

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

STANTON CARPET HOLDING CO.

A designer and marketer of high and mid-priced decorative carpets and rugs.

12.125% Senior Subordinated Note due 2014	\$	1,185,366		08/01/0
Common Stock (B)		165 shs.		08/01/0
Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)			55 shs.	08/01/0

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

		Shares, Units, Warrants, Ownership or Principal Amount		Acquisit Date
CORPORATE RESTRICTED SECURITIES (A) (Continued)				

STRATEGIC EQUIPMENT & SUPPLY CORPORATION, INC.

A provider of kitchen and restaurant design, equipment fabrication and installation services.

Warrant, exercisable until 2008, to purchase common stock at \$.01 per share (B)		61,862 shs.		01/14/0
--	--	-------------	--	---------

SYNVENTIVE EQUITY LLC

A manufacturer of hot runner systems used in the plastic injection molding process.

Limited Partnership Interest (B)		1.05% int.		08/20/0
Warrant, exercisable until 2011, to purchase common stock at \$.01 per share (B)		45,942 shs.		08/21/0

TANGENT RAIL CORPORATION

A manufacturer of rail ties and provides specialty services to the North American railroad industry.

13% Senior Subordinated Note due 2013	\$	1,173,909		10/14/0
Preferred Stock (B)		1,749 shs.		10/14/0
Common Stock (B)		1,167 shs.		10/14/0
Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)			618 shs.	10/14/0

TERRA RENEWAL SERVICES, INC.

A provider of wastewater residual management and required environmental reporting, permitting, nutrient management planning and record keeping to companies involved in poultry and food processing.

8.68% Senior Secured Tranche A Note due 2011 (C)	\$	159,375		04/28/0
8.75% Senior Secured Tranche A Note due 2011 (C)	\$	121,875		04/28/0
8.93% Senior Secured Tranche B Note due 2012 (C)	\$	179,883		04/28/0
8.65% Senior Secured Tranche B Note due 2012 (C)	\$	241,992		04/28/0

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

8.64% Senior Secured Tranche B Note due 2012 (C)	\$	209,530		09/11/0
12% Senior Subordinated Note due 2014	\$	664,062		04/28/0
Limited Partnership Interest of Saw Mill Capital Fund V, L.P.			2.30% int.	03/01/0
Warrant, exercisable until 2016, to purchase common stock at \$.01 per share (B)			41 shs.	04/28/0

THE TRANZONIC COMPANIES

A producer of commercial and industrial supplies, such as safety products, janitorial supplies, work apparel, washroom and restroom supplies and sanitary care products.

13% Senior Subordinated Note due 2009	\$	1,356,000		02/05/9
Common Stock (B)			315 shs.	02/04/9
Warrant, exercisable until 2006, to purchase common stock at \$.01 per share (B)			222 shs.	02/05/9

20

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

		Shares, Units, Warrants, Ownership or Principal Amount		Acquisit Date
CORPORATE RESTRICTED SECURITIES (A) (Continued)				

TRANSTAR HOLDING COMPANY

A distributor of aftermarket automotive transmission parts.

12% Senior Subordinated Note due 2013	\$	918,000		08/31/0
Common Stock (B)			432 shs.	08/31/0
Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)			46 shs.	08/31/0

TRONAIR, INC.

A designer, engineer and manufacturer of ground support equipment for the business, commuter and commercial aviation markets.

10.5% Senior Secured Term Note due 2008	\$	451,394		01/20/0
12% Senior Subordinated Note due 2010	\$	758,100		01/20/0
Common Stock (B)			129,960 shs.	01/20/0
Warrant, exercisable until 2010, to purchase common stock at \$1 per share (B)			148,912 shs.	01/20/0

TRUCK BODIES & EQUIPMENT INTERNATIONAL

A designer and manufacturer of accessories for heavy and medium duty trucks, primarily dump bodies, hoists, various forms of flat-bed bodies, landscape bodies and

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

other accessories.

12% Senior Subordinated Note due 2013	\$	1,222,698	
Common Stock (B)		393 shs.	
Warrant, exercisable until 2013, to purchase common stock at \$.01 per share (B)		81 shs.	

TRUSTILE DOORS, INC.

A manufacturer and distributor of interior doors.

12.5% Senior Subordinated Note due 2010	\$	562,500	04/11/0
Warrant, exercisable until 2010, to purchase common stock at \$.01 per share (B)		3,060 shs.	04/11/0

TUBULAR TEXTILE MACHINERY

A designer, manufacturer, sale and servicer of finishing machinery for the knit and woven segments of the global textile industry.

12% Senior Subordinated Note due 2014	\$	705,457	05/28/0
8.75% Senior Secured Note due 2011	\$	409,310	05/28/0
Common Stock (B)		385,233 shs.	05/28/0
Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)		116,521 shs.	05/28/0

*07/19/05 and 12/22/05.

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

		Shares, Units, Warrants, Ownership or Principal Amount	Acquisit Date
CORPORATE RESTRICTED SECURITIES (A) (Continued)			

U S S HOLDINGS, INC.

A producer of high grade industrial and specialty silica sands.

14% Redeemable Preferred Stock (B)		499 shs.	09/30/9
Convertible Preferred Stock Series A and B, convertible into common stock at \$9.26 per share (B)		72,720 shs.	12/19/9
Common Stock (B)		10,013 shs.	09/30/9
Warrants, exercisable until 2010, to purchase common stock at \$.01 per share (B)		2,459 shs.	

U-LINE CORPORATION

A manufacturer of high-end, built-in, undercounter ice making, wine storage and refrigeration appliances.

12.5% Senior Subordinated Note due 2012	\$	996,500	04/30/0
Common Stock (B)		96 shs.	04/30/0

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

Warrant, exercisable until 2012, to purchase common stock at \$.01 per share (B)	122 shs.	04/30/0
VICTORY VENTURES LLC		
An acquirer of controlling or substantial interests in other entities.		
Series A Preferred Units (B)	0.04% int.	12/02/9
VITALITY FOODSERVICE, INC.		
A non-carbonated beverage dispensing company focused on the foodservice industry.		
13% Senior Subordinated Note due 2011	\$ 999,153	09/24/0
Common Stock (B)	12,585 shs.	09/24/0
Warrant, exercisable until 2011, to purchase common stock at \$.01 per share (B)	12,593 shs.	09/24/0
VITEX PACKAGING GROUP, INC.		
A manufacturer of specialty packaging, primarily envelopes and tags used on tea bags		
12.5% Senior Subordinated Note due 2012	\$ 900,000	07/19/0
Limited Partnership Interest Class A (B)	0.93% int.	07/19/0
Limited Partnership Interest Class B (B)	0.41% int.	07/19/0
WALLS INDUSTRIES, INC.		
A provider of branded workwear and sporting goods apparel.		
10% Senior Subordinated Lien Note due 2009	\$ 444,079	07/12/0
14% Senior Subordinated Note due 2012	\$ 574,613	07/12/0
Limited Partnership Interest (B)	0.20% int.	07/12/0
Warrant, exercisable until 2014, to purchase common stock at \$.01 per share (B)	2,133 shs.	07/12/0

TOTAL PRIVATE PLACEMENT INVESTMENTS

*12/19/96 and 09/30/99.

22

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

	Interest Rate	Due Date	Shares or Principal Amount	
CORPORATE RESTRICTED SECURITIES (A) (Continued)	-----	-----	-----	-----
RULE 144A SECURITIES - 5.12%: (A)				
BONDS - 5.12%				
A E S Corporation	8.750%	05/15/13	\$ 425,000	\$

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

A E S Corporation	9.000	05/15/15	175,000	
Basic Energy Services	7.125	04/15/16	625,000	
Bombardier, Inc.	6.300	05/01/14	500,000	
Charter Communications Op LLC	8.000	04/30/12	250,000	
Douglas Dynamics LLC	7.750	01/15/12	325,000	
Edison Mission Energy	7.750	06/15/16	235,000	
G F S I, Inc.	11.000	06/01/11	375,000	
Interactive Health LLC	7.250	04/01/11	484,000	
Packaging Dynamics Corporation of Ameri	10.000	05/01/16	850,000	
Petrohawk Energy Corporation	9.125	07/15/13	500,000	
Service Corporation International (C)	8.000	06/15/17	500,000	
Stewart & Stevenson LLC	10.000	07/15/14	600,000	
T C W Leveraged Income Trust LP	8.410	11/30/06	437,144	
Tenaska Alabama Partners LP	7.000	06/30/21	180,789	
Tunica-Biloxi Gaming Authority	9.000	11/15/15	500,000	
TOTAL BONDS				6,
WARRANTS - 0.00%				
Winsloew Furniture, Inc. (B)			700	\$
TOTAL WARRANTS				
TOTAL RULE 144A SECURITIES				6,
TOTAL CORPORATE RESTRICTED SECURITIES				\$ 98,

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

CORPORATE PUBLIC SECURITIES -- 25.91%: (A)	Interest Rate	Due Date	Principal Amount	
	-----	-----	-----	-----
BONDS - 25.23%				
Abitibi-Consolidated, Inc.	7.750%	06/15/11	\$ 500,000	\$
Allied Waste NA	7.875	04/15/13	500,000	
Appleton Papers, Inc.	8.125	06/15/11	250,000	
Argo Tech Corporation	9.250	06/01/11	425,000	
Arrow Electronics, Inc.	7.000	01/15/07	500,000	
Atlas Pipeline Partners	8.125	12/15/15	600,000	
BCP Crystal US Holdings Corporation	9.625	06/15/14	355,000	
Blockbuster, Inc. (C)	9.000	09/01/12	275,000	
Cablevision Systems Corporation	8.000	04/15/12	500,000	
Cadmus Communications Corporation	8.375	06/15/14	500,000	
Chemed Corporation	8.750	02/24/11	600,000	
Chesapeake Energy Corporation	7.000	08/15/14	650,000	
Cincinnati Bell, Inc.	8.375	01/15/14	550,000	
Clayton Williams Energy, Inc.	7.750	08/01/13	575,000	

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

Del Monte Corporation	8.625	12/15/12	200,000
Dollar Financial Group	9.750	11/15/11	241,000
Dominos Pizza, Inc.	8.250	07/01/11	109,000
Dynergy Holdings, Inc.	8.375	05/01/16	665,000
Electronic Data Systems Corporation	7.125	10/15/09	500,000
Esterline Technologies	7.750	06/15/13	175,000
Exco Resources, Inc.	7.250	01/15/11	500,000
Ford Motor Credit Co.	7.375	10/28/09	750,000
Gencorp, Inc.	9.500	08/15/13	130,000
General Motors Acceptance Corporation	5.850	01/14/09	750,000
Goodyear Tire & Rubber Co.	7.857	08/15/11	350,000
Goodyear Tire & Rubber Co.	9.000	07/01/15	100,000
GulfMark Offshore, Inc.	7.750	07/15/14	300,000
Houghton Mifflin Co.	9.875	02/01/13	500,000
Imax Corporation	9.625	12/01/10	500,000
Inergy LP	8.250	03/01/16	75,000
Intelsat Subsidiary Holding Company Ltd.	9.614	01/15/12	475,000
Interline Brands, Inc.	8.125	06/15/14	150,000
Intrawest Corporation	7.500	10/15/13	250,000
Iron Mountain, Inc.	8.750	07/15/18	500,000
K 2, Inc.	7.375	07/01/14	150,000
Koppers Inc.	9.875	10/15/13	170,000
Lazard LLC	7.125	05/15/15	375,000
Leucadia National Corporation	7.000	08/15/13	350,000
Liberty Media Corporation	5.700	05/15/13	500,000
Lodgenet Entertainment Corporation	9.500	06/15/13	375,000
Lyondell Chemical Co.	9.500	12/15/08	265,000
M G M Mirage, Inc.	6.000	10/01/09	225,000
Mac-Gray Corporation	7.625	08/15/15	300,000
Majestic Star Casino LLC	9.500	10/15/10	250,000
Manitowoc Company, Inc.	7.125	11/01/13	100,000
Markwest Energy Operating Co.	6.875	11/01/14	550,000
Mediacom LLC	9.500	01/15/13	750,000
Metaldyne Corporation (C)	10.000	11/01/13	340,000
N R G Energy, Inc.	7.375	02/01/16	600,000
Nalco Co.	7.750	11/15/11	250,000

24

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

CORPORATE PUBLIC SECURITIES (A) (Continued)	Interest Rate	Due Date	Principal Amount	
BONDS, CONTINUED				
National Wine & Spirits, Inc.	10.125%	01/15/09	\$ 25,000	\$
Neiman Marcus Group, Inc.	10.375	10/15/15	600,000	
Nextel Communications, Inc.	7.375	08/01/15	400,000	
North American Energy Partners	8.750	12/01/11	200,000	
Nova Chemicals Corporation (C)	8.405	11/15/13	215,000	
NTL Cable PLC	9.125	08/15/16	690,000	
O E D Corp/Diamond Jo Company Guarantee	8.750	04/15/12	500,000	
Offshore Logistics, Inc.	6.125	06/15/13	350,000	
P Q Corporation	7.500	02/15/13	685,000	
Pacific Energy Partners	7.125	06/15/14	250,000	
Pacific Energy Partners	6.250	09/15/15	100,000	

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

Pinnacle Foods Group	8.250	12/01/13	225,000
Pliant Corporation	11.850	06/15/09	643,130
Primedia, Inc.	8.000	05/15/13	500,000
Quicksilver Resources, Inc	7.125	04/01/16	600,000
Rent-A-Center, Inc.	7.500	05/01/10	250,000
Rent-Way, Inc.	11.875	06/15/10	450,000
Rock-Tenn Co.	8.200	08/15/11	500,000
Rogers Wireless, Inc.	7.250	12/15/12	90,000
Rogers Wireless, Inc.	7.500	03/15/15	560,000
Rogers Wireless, Inc.	8.000	12/15/12	90,000
Samsonite Corporation	8.875	06/01/11	500,000
Sheridan Acquisition Corporation	10.250	08/15/11	225,000
Sierra Pacific Resources	6.750	08/15/17	330,000
Sungard Data Systems	9.125	08/15/13	75,000
Tekni-Plex, Inc.	12.750	06/15/10	500,000
Telex Communications, Inc.	11.500	10/15/08	250,000
Tenet Healthcare Corporation	6.375	12/01/11	250,000
Tenet Healthcare Corporation	9.875	07/01/14	350,000
Tenneco, Inc.	8.625	11/15/14	500,000
Texas Industries, Inc.	7.250	07/15/13	35,000
Triton P C S, Inc.	8.500	06/01/13	500,000
Tyco International Group SA	6.375	10/15/11	150,000
Unisys Corporation	8.000	10/15/12	90,000
United Components, Inc.	9.375	06/15/13	535,000
United Rentals, Inc.	7.750	11/15/13	325,000
Universal City Florida	8.375	05/01/10	100,000
Universal City Florida (C)	10.239	05/01/10	100,000
Vought Aircraft Industries	8.000	07/15/11	650,000
Warner Music Group	7.375	04/15/14	125,000
Wornick Co.	10.875	07/15/11	350,000

TOTAL BONDS

33,

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

CORPORATE PUBLIC SECURITIES (A) (Continued)	Interest Rate	Due Date	Shares or Principal Amount	C
	-----	-----	-----	-----
COMMON STOCK - 0.04%				
Bare Escentuals, Inc. (B)			200	\$
Distributed Energy Systems Corporation			14,000	
TOTAL COMMON STOCK				
CONVERTIBLE BONDS - 0.64%				
Citadel Broadcasting Corporation	1.875%	02/15/11	\$ 300,000	\$
ICOS Corporation	2.000	07/01/23	375,000	
Q L T, Inc.	3.000	09/15/23	305,000	

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

TOTAL CONVERTIBLE BONDS

TOTAL CORPORATE PUBLIC SECURITIES

\$ 34,

SHORT-TERM SECURITIES:	Interest Rate/Yield	Due Date	Principal Amount	C
	-----	-----	-----	-----
COMMERCIAL PAPER - 6.48%				
ConocoPhillips	5.320%	10/02/06	\$ 2,669,000	\$ 2,
Detroit Edison Co.	5.300	10/02/06	2,223,000	2,
Detroit Edison Co.	5.310	10/03/06	2,000,000	1,
Kraft Foods, Inc.	5.330	10/04/06	1,711,000	1,

TOTAL SHORT-TERM SECURITIES				\$ 8,

TOTAL INVESTMENTS	106.70%			\$141, =====
Other Assets	6.40			
Liabilities	(13.10)			

TOTAL NET ASSETS	100.00%			=====

- (A) In each of the convertible note, warrant, convertible preferred and common stock investments, to provide certain registration rights.
- (B) Non-income producing security.
- (C) Variable rate security; rate indicated is as of 09/30/06.
- (D) Defaulted security; interest not accrued.

SEE NOTES TO CONSOLIDATED FINANCIAL STATEMENTS.

26

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS

September 30, 2006
(Unaudited)

INDUSTRY CLASSIFICATION:	Fair Value/ Market Value	

AEROSPACE - 3.11%		BUILDINGS & REAL ESTATE -
Argo Tech Corporation	\$ 442,000	Adorn, Inc.
Consolidated Foundries Holdings	1,407,945	Texas Industries, Inc.
Esterline Technologies	176,750	TruStile Doors, Inc.
Gencorp, Inc.	135,200	
P A S Holdco LLC	1,371,829	
Vought Aircraft Industries	596,375	

	4,130,099	CHEMICAL, PLASTICS
	-----	& RUBBER - 1.50%
AUTOMOBILE - 10.25%		BCP Crystal US Holding Cor
Ford Motor Credit Co.	728,853	Capital Specialty Plastics
Fuel Systems Holding Corporation	1,343,643	Koppers, Inc.
General Motors Acceptance Corporation	735,343	Lyondell Chemical Co.
Goodyear Tire & Rubber Co.	441,875	Nalco Co.
Jason, Inc.	1,052,564	Nova Chemicals Corporation
		P Q Corporation

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

LIH Investors, L.P.	2,156,913
Metaldyne Corporation	343,400
Nyloncraft, Inc.	1,423,432
Ontario Drive & Gear Ltd.	1,323,483
Qualis Automotive LLC	1,679,119
Tenneco, Inc.	493,750
Transtar Holding Company	1,354,302
United Components, Inc.	529,650

	13,606,327

BEVERAGE, DRUG & FOOD - 3.84%	
Beta Brands Ltd.	--
Cains Foods, L.P.	71,629
Del Monte Corporation	209,750
Dominos Pizza, Inc.	114,450
Eagle Pack Pet Foods, Inc.	845,656
National Wine & Spirits, Inc.	25,250
Nonni's Food Company	1,177,789
Pinnacle Foods Group	225,281
River Ranch Fresh Foods LLC	780,000
Specialty Foods Group, Inc.	--
Vitality Foodservice, Inc.	1,301,123
Wornick Co.	348,250

	5,099,178

BROADCASTING & ENTERTAINMENT - 1.99%	
Cablevision Systems Corporation	506,250
Charter Communications Op LLC	251,875
Citadel Broadcasting Corporation	244,125
Liberty Media Corporation	471,811
Lodgenet Entertainment Corporation	401,250
Mediacom LLC	766,875

	2,642,186

CONSUMER PRODUCTS - 7.53%
 Augusta Sportswear Holding
 Bravo Sports Holding Corpo
 Euro-Pro Corporation
 G F S I, Inc.
 K N B Holdings Corporation
 Momentum Holding Co.
 Neff Motivation, Inc.
 Royal Baths Manufacturing
 The Tranzonic Companies
 Walls Industries, Inc.
 Winsloew Furniture, Inc.

CONTAINERS, PACKAGING
 & GLASS - 5.49%
 Flutes, Inc.
 Maverick Acquisition Compa
 P I I Holding Corporation
 Packaging Dynamics Corpora
 Paradigm Packaging, Inc.
 Pliant Corporation
 Tekni-Plex, Inc.
 Vitex Packaging, Inc.

 CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS
 September 30, 2006
 (Unaudited)

INDUSTRY CLASSIFICATION: (Cont.)	Fair Value/ Market Value

DISTRIBUTION - 3.34%	
Corvest Group, Inc.	\$ --
Kele and Associates, Inc.	1,466,286
Magnatech International, Inc.	1,019,282
O R S Nasco Holding, Inc.	1,347,487
QualServ Corporation	601,485
Strategic Equipment & Supply Corporation, Inc.	--

	4,434,540

FARMING & AGRICULTURE - 0.
 Protein Genetics, Inc.
 FINANCIAL SERVICES - 1.07%
 Dollar Financial Group
 East River Ventures I, L.P.
 Highgate Capital LLC
 Lazard LLC
 Leucadia National Corporat

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

-----		T C W Leveraged Income Tru
DIVERSIFIED/CONGLOMERATE,		Victory Ventures LLC
MANUFACTURING - 6.14%		
AmerCable, Inc.	804,289	
Arrow Tru-Line Holdings, Inc.	1,260,715	
Bombardier, Inc.	448,750	HEALTHCARE, EDUCATION
Coining Corporation of America LLC	1,286,251	& CHILDCARE - 4.31%
Dexter Magnetics Technologies, Inc.	642,592	A T I Acquisition Company
Douglas Dynamics LLC	307,125	American Hospice Managemen
Evans Consoles, Inc.	--	F H S Holdings LLC
Radiac Abrasives, Inc.	1,327,370	ICOS Corporation
Truck Bodies & Equipment International	1,907,507	Interactive Health LLC
Tyco International Group SA	157,243	MedAssist, Inc.
	-----	Q L T, Inc.
	8,141,842	Tenet Healthcare Corporati

DIVERSIFIED/CONGLOMERATE,		
SERVICE - 5.85%		
Allied Waste NA	511,250	HOME & OFFICE FURNISHINGS,
Bare Escentuals, Inc.	5,430	HOUSEWARES, AND DURABLE
CapeSuccess LLC	2,512	CONSUMER PRODUCTS - 6.74
Chemed Corporation	622,500	Connor Sport Court Interna
Diversco, Inc./DHI Holdings, Inc.	1,252,858	H M Holding Company
Dwyer Group, Inc.	1,496,254	Home Decor Holding Company
Fowler Holding, Inc.	1,348,990	Justrite Manufacturing Acq
Interline Brands, Inc.	151,875	Monessen Holding Corporati
Iron Mountain, Inc.	518,750	Samsonite Corporation
Keystone North America, Inc.	167,848	Stanton Carpet Holding Co.
Mac-Gray Corporation	306,000	U-Line Corporation
Moss, Inc.	894,928	
Service Corporation International	478,750	

	7,757,945	

ELECTRONICS - 2.85%		
A E S Corporation	644,376	
Arrow Electronics, Inc.	501,843	
Directed Electronics, Inc.	2,069,207	
Distributed Energy Systems	45,220	
Electronic Data Systems Corporation	522,965	

	3,783,611	

28

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS
September 30, 2006
(Unaudited)

INDUSTRY CLASSIFICATION: (Cont.)	Fair Value/ Market Value	

LEISURE, AMUSEMENT,		OIL AND GAS - 2.75%
ENTERTAINMENT - 4.15%		Aventine Renewable Energy
IMAX Corporation	\$ 476,250	Basic Energy Services

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

Intrawest Corporation	268,438	Chesapeake Energy Corporat
K 2, Inc.	146,063	Clayton Williams Energy, I
Keepsake Quilting, Inc.	662,513	Exco Resources, Inc.
M G M Mirage, Inc.	222,188	GulfMark Offshore, Inc.
Majestic Star Casino LLC	255,625	North American Energy Part
O E D Corp/Diamond Jo Company Guarantee	500,000	Offshore Logistics, Inc.
Overton's Holding Company	1,008,977	Quicksilver Resources, Inc
Savage Sports Holding, Inc.	1,122,822	
Tunica-Biloxi Gaming Authority	520,000	
Universal City Florida	203,125	
Warner Music Group	121,875	PHARMACEUTICALS - 1.05%
	-----	CorePharma LLC
	5,507,876	Enzymatic Therapy, Inc.

MACHINERY - 6.96%		
Integration Technology Systems, Inc.	711,753	PUBLISHING/PRINTING - 1.28
Manitowoc Company, Inc.	98,500	Cadmus Communications Corp
Maxon Corporation	1,805,179	Houghton Mifflin Co.
Morton Industrial Group, Inc.	1,364,945	Primedia, Inc.
Safety Speed Cut Manufacturing Company, Inc.	1,288,297	Sheridan Acquisition Corpo
Stewart & Stevenson LLC	607,500	
Synventive Equity LLC	17,714	
Tronair, Inc.	1,899,474	
Tubular Textile Machinery	1,436,007	
	-----	RETAIL STORES - 3.14%
	9,229,369	Blockbuster, Inc.
	-----	Neiman Marcus Group, Inc.
MEDICAL DEVICES/BIOTECH - 2.51%		Olympic Sales, Inc.
Beacon Medical Products, Inc.	--	Rent-A-Center, Inc.
Coeur, Inc.	721,848	Rent-Way, Inc.
E X C Acquisition Corporation	68,734	United Rentals, Inc.
MicroGroup, Inc.	1,660,813	
OakRiver Technology, Inc.	877,839	
	-----	TECHNOLOGY - 2.06%
	3,329,234	C & J Spec-Rent Services,
	-----	Sungard Data Systems
MINING, STEEL, IRON &		Unisys Corporation
NON PRECIOUS METALS - 0.04%		
U S S Holdings, Inc.	54,525	

NATURAL RESOURCES - 0.93%		
Abitibi-Consolidated, Inc.	457,500	
Appleton Papers, Inc.	250,000	
Rock-Tenn Co.	520,000	

	1,227,500	

CONSOLIDATED SCHEDULE OF INVESTMENTS (CONT.) MASSMUTUAL PARTICIPATION INVESTORS
September 30, 2006
(Unaudited)

INDUSTRY CLASSIFICATION: (Cont.)	Fair Value/ Market Value

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

TELECOMMUNICATIONS - 3.88%	
Cincinnati Bell, Inc.	\$ 555,500
Intelsat Subsidiary Holding Company Ltd.	481,531
ITC^DeltaCom, Inc.	1,465,532
Nextel Communications, Inc.	412,696
NTL Cable PLC	712,425
Rogers Wireless, Inc.	787,587
Telex Communications, Inc.	265,000
Triton P C S, Inc.	463,750

	5,144,021

TRANSPORTATION - 1.54%	
NABCO, Inc.	653,843
Tangent Rail Corporation	1,389,170

	2,043,013

UTILITIES - 3.07%	
Atlas Pipeline Partners	610,500
Dynegy Holdings, Inc.	676,638
Edison Mission Energy	237,938
Inergy LP	77,625
Markwest Energy Operating Co.	517,000
N R G Energy, Inc.	596,250
Pacific Energy Partners	353,500
Petrohawk Energy Corporation	502,500
Sierra Pacific Resources	330,138
Tenaska Alabama Partners L.P.	177,157

	4,079,246

WASTE MANAGEMENT/ POLLUTION - 1.26%	
Terra Renewal Services, Inc.	1,677,419

TOTAL CORPORATE RESTRICTED AND PUBLIC SECURITIES - 100.22%	\$ 132,969,875
	=====

SEE NOTES TO CONSOLIDATED FINANCIAL STATEMENTS.

30

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS MASSMUTUAL PARTICIPATION INVESTORS
(Unaudited)

1. HISTORY

MassMutual Participation Investors (the "Trust") was organized as a Massachusetts business trust under the laws of the Commonwealth of Massachusetts pursuant to a Declaration of Trust dated April 7, 1988.

The Trust is a diversified closed-end management investment company. Babson Capital Management LLC ("Babson Capital"), a wholly-owned indirect subsidiary of Massachusetts Mutual Life Insurance Company ("MassMutual"), acts as its investment adviser. The Trust's investment objective is to maximize total

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

return by providing a high level of current income, the potential for growth of such income, and capital appreciation, by investing primarily in a portfolio of privately placed below investment grade, long-term corporate debt obligations purchased directly from their issuers, at least half of which normally will include equity features.

On January 27, 1998, the Board of Trustees authorized the formation of a wholly owned subsidiary of the Trust ("MMPI Subsidiary Trust") for the purpose of holding certain investments. The results of the MMPI Subsidiary Trust are consolidated in the accompanying financial statements. Footnote 2.D below discusses the federal tax consequences of the MMPI Subsidiary Trust.

2. SIGNIFICANT ACCOUNTING POLICIES

The following is a summary of significant accounting policies followed consistently by the Trust in the preparation of its consolidated financial statements in conformity with accounting principles generally accepted in the United States of America.

A. VALUATION OF INVESTMENTS:

Valuation of a security in the Trust's portfolio is made on the basis of market price whenever market quotations are readily available and all securities of the same class held by the Trust can be readily sold in such market.

Nearly all securities which are acquired by the Trust directly from the issuers and shares into which such securities may be converted or which may be purchased on the exercise of warrants attached to such securities will be subject to legal or contractual delays in, or restrictions on, resale and will therefore be "restricted securities". Generally speaking, as contrasted with open-market sales of unrestricted securities, which may be effected immediately if the market is adequate, absent an exemption from registration, restricted securities can be sold only in a public offering for which a registration statement is in effect under the Securities Act of 1933, as amended (the "1933 Act").

The value of restricted securities, and of any other assets for which there are no reliable market quotations, is the fair value as determined in good faith by the Trust's Board of Trustees (the "Trustees"). Each restricted security is valued by the Trustees as of the time of its acquisition and at least quarterly thereafter. The Trustees have established guidelines to aid in the valuation of each security. Generally, restricted securities are initially valued at cost or less at the time of acquisition by the Trust. Values greater or less than cost are thereafter used for restricted securities in appropriate circumstances. Among the factors ordinarily considered are the existence of restrictions upon the sale of a security held by the Trust; an estimate of the existence and the extent of a market for the security; the extent of any discount at which the security was acquired; the estimated period of time during which the security will not be freely marketable; the estimated expenses of registering or otherwise qualifying the security for public sale; estimated underwriting commissions if underwriting would be required to effect a sale; in the case of a convertible security, whether or not it would trade on the basis of its stock equivalent; in the case of a debt obligation which would trade independently of any equity equivalent, the current yields on comparable securities; the estimated amount of the floating supply of such securities available for purchase; the proportion of the issue held by the Trust; changes in the financial condition and prospects of the issuer; the existence of merger proposals or tender offers affecting the issuer; and any other factors affecting fair value, all in accordance with the Investment Company Act of 1940, as amended (the "1940 Act"). In making valuations, opinions of counsel may be relied upon as to

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

whether or not securities are restricted securities and as to the legal requirements for public sale.

When market quotations are readily available for unrestricted securities of an issuer, restricted securities of the same class are generally valued at a discount from the market price of such unrestricted securities. The Trustees, however, consider all factors in fixing any discount, including the filing of a registration statement for such securities under the 1933 Act and any other developments which are likely to increase the probability that the securities may be publicly sold by the Trust without restriction.

The Trustees meet at least once in each quarter to value the Trust's portfolio securities as of the close of business on the last business day of the preceding quarter. This valuation requires the approval of a majority of the Trustees of the Trust, including a majority of the Trustees who are not interested persons of the Trust or of Babson Capital. In making valuations, the Trustees will consider Babson Capital's reports analyzing each portfolio security in accordance with the relevant factors referred to above. Babson Capital has agreed to provide such reports to the Trust at least quarterly.

The consolidated financial statements include private placement restricted securities valued at \$91,797,938 (69.19% of net assets) as of September 30, 2006 whose values have been determined by the Trustees in the absence of readily ascertainable market values. Due to the inherent uncertainty of valuation, those values may differ significantly from the

31

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS MASSMUTUAL PARTICIPATION INVESTORS (CONTINUED)

values that would have been used had a ready market for the securities existed, and the differences could be material.

The values for corporate public securities are stated at the last reported sales price or at prices based upon quotations obtained from brokers and dealers as of September 30, 2006, subject to discount where appropriate, and are approved by the Trustees.

Short-term securities with more than sixty days to maturity are valued at fair value and short-term securities having a maturity of sixty days or less are valued at amortized cost, which approximates market value.

B. ACCOUNTING FOR INVESTMENTS:

Investment transactions are accounted for on the trade date. Dividend income is recorded on the ex-dividend date. Interest income is recorded on the accrual basis including the amortization of premiums and accretion of discount on bonds held. The Trust does not accrue income when payment is delinquent and when management believes payment is questionable.

Realized gains and losses on investment transactions and unrealized appreciation and depreciation of investments are reported for financial statement and federal income tax purposes on the identified cost method.

C. USE OF ESTIMATES:

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

D. FEDERAL INCOME TAXES:

The Trust has elected to be taxed as a "regulated investment company" under the Internal Revenue Code, and intends to maintain this qualification, and to distribute substantially all of its net taxable income to its shareholders. In any year when net long-term capital gains are realized by the Trust, management, after evaluating the prevailing economic conditions, will recommend that Trustees either designate the net realized long-term gains as undistributed and pay the federal capital gains taxes thereon, or distribute all or a portion of such net gains.

The Trust is taxed as a regulated investment company and is therefore limited as to the amount of non-qualified income that it may receive as the result of operating a trade or business, e.g. the Trust's pro rata share of income allocable to the Trust by a partnership operating company. The Trust's violation of this limitation could result in the loss of its status as a regulated investment company, thereby subjecting all of its net income and capital gains to corporate taxes prior to distribution to its shareholders. The Trust, from time-to-time, identifies investment opportunities in the securities of entities that could cause such trade or business income to be allocable to the Trust. The MMPI Subsidiary Trust (described in Footnote 1, above) was formed in order to allow investment in such securities without adversely affecting the Trust's status as a regulated investment company.

The MMPI Subsidiary Trust is not taxed as a regulated investment company. Accordingly, prior to the Trust's receiving any distributions from the MMPI Subsidiary Trust, all of the MMPI Subsidiary Trust's taxable income and realized gains, including non-qualified income and realized gains, is subject to taxation at prevailing corporate tax rates. For the nine months ended September 30, 2006, the MMPI Subsidiary Trust has accrued tax expense on net realized gains of \$178,074 and reduced accrued deferred tax expenses on net unrealized gains by \$4,449.

E. DISTRIBUTIONS TO SHAREHOLDERS:

The Trust records distributions to shareholders from net investment income and net realized gains, if any, on the exdividend date. The Trust's net investment income dividend is declared four times per year, in April, July, October and December. The Trust's net realized capital gain distribution, if any, is declared in December.

3. INVESTMENT ADVISORY AND ADMINISTRATIVE SERVICES FEE

A. SERVICES:

Under an Investment Advisory and Administrative Services Contract (the "Contract") with the Trust, Babson Capital has agreed to use its best efforts to present to the Trust a continuing and suitable investment program consistent with the investment objectives and policies of the Trust. Babson Capital represents the Trust in any negotiations with issuers, investment banking firms, securities brokers or dealers and other institutions or investors relating to the Trust's investments. Under the Contract, Babson Capital provides administration of the day-to-day operations of the Trust and provides the Trust with office space and office equipment, accounting and bookkeeping services, and necessary executive, clerical and secretarial personnel for the performance of the foregoing services.

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

B. FEE:

For its services under the Contract, Babson Capital is paid a quarterly Investment Advisory fee equal to .225% of the value of the Trust's net assets as of the last business day of each fiscal quarter, an amount approximately equivalent to .90% on an annual basis. A majority of the Trustees, includ-

32

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS MASSMUTUAL PARTICIPATION INVESTORS (CONTINUED)

ing a majority of the Trustees who are not interested persons of the Trust or of Babson Capital, approve the valuation of the Trust's net assets as of such day.

4. SENIOR SECURED INDEBTEDNESS:

A. NOTE PAYABLE

MassMutual holds the Trust's \$12,000,000 Senior Fixed Rate Convertible Note (the "Note") issued by the Trust in 1995. The Note, as amended, is due December 13, 2011 and accrues interest at 5.80% per annum. MassMutual, at its option, can convert the principal amount of the Note into common shares. The dollar amount of principal would be converted into an equivalent dollar amount of common shares based upon the average price of the common shares for ten business days prior to the notice of conversion. For the nine months ended September 30, 2006, the Trust incurred total interest expense on the Note of \$522,000.

The Trust may redeem the Note, in whole or in part, at the principal amount proposed to be redeemed together with the accrued and unpaid interest thereon through the redemption date plus a Make Whole Premium. The Make Whole Premium equals the excess of (i) the present value of the scheduled payments of principal and interest which the Trust would have paid but for the proposed redemption, discounted at the rate of interest of U.S. Treasury obligations whose maturity approximates that of the Note plus 0.50% over (ii) the principal of the Note proposed to be redeemed.

B. REVOLVING CREDIT AGREEMENT

The Trust entered into a \$15,000,000 Revolving Credit Agreement with Bank of America (formerly Fleet National Bank) (the "Agent Bank") dated May 29, 1997, which had a stated maturity on May 31, 2004. The maturity date of this loan was extended to May 31, 2007, and its terms amended and restated pursuant to the First Amended and Restated Revolving Credit Agreement (the "Revolver") dated May 27, 2004, between the Trust and the Agent Bank.

The Revolver bears interest payable quarterly in arrears at a per annum rate that varies depending upon whether the Trust requests a Base Rate Loan or LIBOR Rate Loan. Interest on Base Rate loans equals the higher of: (i) the annual "Base Rate" as set periodically by the Agent Bank and (ii) the most recent Federal Funds Effective Rate plus .50% per annum. Per annum interest on LIBOR Rate Loans equals .60% plus the London Inter Bank Offered Rate ("LIBOR") rate, divided by 1 minus LIBOR Reserve Rate. The Trust also incurs expense on the undrawn portion of the total Revolver at a rate of .25% per annum.

As of September 30, 2006, there were no outstanding loans against the Revolver. For the nine months ended September 30, 2006, the Trust incurred

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

expense on the Revolver of \$27,945 related to the undrawn portion.

5. PURCHASES AND SALES OF INVESTMENTS

For the nine months
ended 9/30/2006

	Cost of Investments Acquired	Proceeds from Sales or Maturities
	-----	-----
Corporate restricted securities	\$28,672,567	\$19,699,220
Corporate public securities	7,864,287	12,254,816

The aggregate cost of investments is substantially the same for financial reporting and federal income tax purposes as of September 30, 2006. The net unrealized depreciation of investments for financial reporting and federal tax purposes as of September 30, 2006 is \$250,757 and consists of \$11,720,648 appreciation and \$11,971,405 depreciation.

Net unrealized depreciation of investments on the Statement of Assets and Liabilities reflects the balance net of a deferred tax accrual of \$170,965 on net unrealized gains in the MMPI Subsidiary Trust.

6. QUARTERLY RESULTS OF INVESTMENT OPERATIONS

	March 31, 2006	
	Amount	Per Share
	-----	-----
Investment income	\$ 3,229,245	
Net investment income	\$ 2,668,897	\$ 0.27
Net realized and unrealized gain on investments (net of taxes)	\$ 3,988,640	\$ 0.41

	June 30, 2006	
	Amount	Per Share
	-----	-----
Investment income	\$ 3,094,537	
Net investment income	\$ 2,530,332	\$ 0.26
Net realized and unrealized gain on investments (net of taxes)	\$ 3,610,163	\$ 0.37

	September 30, 2006	
	Amount	Per Share
	-----	-----
Investment income	\$ 3,090,554	
Net investment income	\$ 2,542,211	\$ 0.26
Net realized and unrealized gain on investments (net of taxes)	\$ 2,345,586	\$ 0.24

33

TRUSTEES

William J. Barrett
Donald E. Benson*
Michael H. Brown
Roger W. Crandall

OFFICERS

Roger W. Crandall	Chairman
Clifford M. Noreen	President
James M. Roy	Vice President & Chief Financial Officer

Edgar Filing: MASSMUTUAL PARTICIPATION INVESTORS - Form N-30D

Donald Glickman	Rodney J. Dillman	Vice President & Secretary
Martin T. Hart*	Jill A. Fricchione	Vice President
Robert E. Joyal	Michael P. Hermsen	Vice President
Corine T. Norgaard*	Mary Wilson Kibbe	Vice President
	Michael L. Klofas	Vice President
	Richard E. Spencer, II	Vice President
	Ronald S. Talaia	Treasurer
	John T. Davitt, Jr.	Comptroller
	Melissa M. LaGrant	Chief Compliance Officer

*MEMBER OF THE AUDIT COMMITTEE

DIVIDEND REINVESTMENT AND CASH PURCHASE PLAN

MassMutual Participation Investors offers a Dividend Reinvestment and Cash Purchase Plan. The Plan provides a simple and automatic way for shareholders to add to their holdings in the Trust through the receipt of dividend shares issued by the Trust or through the reinvestment of cash dividends in Trust shares purchased in the open market. The dividends of each shareholder will be automatically reinvested in the Trust by Shareholder Financial Services Inc., the Transfer Agent, in accordance with the Plan, unless such shareholder elects not to participate by providing written notice to the Transfer Agent. A shareholder may terminate his or her participation by notifying the Transfer Agent in writing.

Participating shareholders may also make additional contributions to the Plan from their own funds. Such contributions may be made by personal check or other means in an amount not less than \$100 nor more than \$5,000 per quarter.

Whenever the Trust declares a dividend payable in cash or shares, the Transfer Agent, acting on behalf of each participating shareholder, will take the dividend in shares only if the net asset value is lower than the market price plus an estimated brokerage commission as of the close of business on the valuation day. The valuation day is the last day preceding the day of dividend payment. When the dividend is to be taken in shares, the number of shares to be received is determined by dividing the cash dividend by the net asset value as of the close of business on the valuation date or, if greater than net asset value, 95% of the closing share price. If the net asset value of the shares is higher than the market value plus an estimated commission, the Transfer Agent, consistent with obtaining the best price and execution, will buy shares on the open market at current prices promptly after the dividend payment date.

The reinvestment of dividends does not, in any way, relieve participating shareholders of any federal, state or local tax. For federal income tax purposes, the amount reportable in respect of a dividend received in newly issued shares of the Trust will be the fair market value of the shares received, which will be reportable as ordinary income and/or capital gains.

As compensation for its services, the Transfer Agent receives a fee of 5% of any dividend and cash contribution (in no event in excess of \$2.50 per distribution per shareholder.)

Any questions regarding the Plan should be addressed to Shareholder Financial Services, Inc., Agent for MassMutual Participation Investors' Dividend Reinvestment and Cash Purchase Plan, P.O. Box 173673, Denver CO 80217-3673.

[LOGO]
MASSMUTUAL
PARTICIPATION INVESTORS

DB1040 1106