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Form 13F Information Table Entry Total: 1,101

Form 13F Information Table Value Total: \$ 3,583,795
(thousands)

List of Other Included Mangers:

Provide a numbered list of the name(s) and Form 13F file number(s) of all institutional investment managers with respect to which this report is filed, other than the manager filing this report.

[If there are no entries in this list, state "NONE" and omit the column headings and list entries.]

No.	Form 13F File Number	Name
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01	28-7680	Marshall & Ilsley Trust Company N.A. (formerly known as M&I National Trust Company and successor to Marshall & Ilsley Trust Company, 13F file no. 28-273; Marshall & Ilsley Trust Company of Florida, 13F file no. 28-4318; and Marshall & Ilsley Trust Company of Arizona, SEC file no. 28-4316)
05	28-274	M&I Investment Management Corp.
06	28-6060	Attorney Harrold J. McComas

MARSHALL & ILSLEY TRUST CO N.A.
SECURITIES AND EXCHANGE COMMISSION FORM 13F
ASSETS AS OF 09/30/04

NAME OF ISSUER	COL2 TITLE OF CLASS	COL3 CUSIP	COL4 MARKET VALUE (X\$1000)	COLUMN 5 SHRS OR PRN AMT	COLUMN 6 SH/ PUT/ PRN CALL	COL7 INVSTMNT SOLE (A)	DSC SHR OTHR (B) (C)
ACE LTD	ORD	G0070K103	8,783	219,250 SH		X	
ACE LTD	ORD	G0070K103	11	285 SH			X
AMDOCS LTD	ORD	G02602103	3,083	141,250 SH		X	
COOPER INDS LTD	CL A	G24182100	1,032	17,484 SH		X	
COOPER INDS LTD	CL A	G24182100	9	152 SH			X
INGERSOLL-RAND CMPNY	CL A	G4776G101	2,108	31,015 SH		X	
INGERSOLL-RAND CMPNY	CL A	G4776G101	9	136 SH			X
NABORS INDUSTRIES LTD	SHS	G6359F103	271	5,730 SH		X	
NABORS INDUSTRIES LTD	SHS	G6359F103	7	147 SH			X
NOBLE CORPORATION	SHS	G65422100	12,008	267,141 SH		X	
NOBLE CORPORATION	SHS	G65422100	9	201 SH			X
ORIENT-EXPRESS HOTELS	CL A	G67743107	208	12,700 SH		X	
PARTNERRE LTD	COM	G6852T105	9,668	176,776 SH		X	
RENAISSANCERE HLDNGS	COM	G7496G103	5,026	97,446 SH		X	
TRANSOCEAN INC	ORD	G90078109	334	9,339 SH		X	
TRANSOCEAN INC	ORD	G90078109	159	4,432 SH			X
ROYAL CARIBBEAN CRS	COM	V7780T103	2,954	67,750 SH		X	
ROYAL CARIBBEAN CRS	COM	V7780T103	9	200 SH			X
FLEXTRONICS INTL LTD	ORD	Y2573F102	273	20,640 SH		X	

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FLEXTRONICS INTL LTD	ORD	Y2573F102	13	980	SH			X
AAR CORP	COM	000361105	198	15,867	SH	X		
AFLAC INC	COM	001055102	374	9,526	SH	X		
AFLAC INC	COM	001055102	94	2,393	SH			X
AES CORP	COM	00130H105	399	39,934	SH	X		
AES CORP	COM	00130H105	14	1,407	SH			X
AT&T WIRELESS SVCS	COM	00209A106	2,420	163,730	SH	X		
AT&T WIRELESS SVCS	COM	00209A106	72	4,893	SH			X
ABBOTT LABS	COM	002824100	19,836	468,270	SH	X		
ABBOTT LABS	COM	002824100	2,997	70,757	SH			X
ACACIA RESH CORP	ACACIA	003881307	983	237,420	SH	X		
	TCH COM							
ACCREDITD HOME LNDRS	COM	00437P107	2,386	61,950	SH	X		
ADESA INC	COM	00686U104	8,193	498,675	SH	X		
ADESA INC	COM	00686U104	24	1,460	SH			X
ADOBE SYS INC	COM	00724F101	1,505	30,419	SH	X		
ADOBE SYS INC	COM	00724F101	14	276	SH			X
ADTRAN INC	COM	00738A106	2,988	131,739	SH	X		
AETNA INC NEW	COM	00817Y108	5,623	56,274	SH	X		
AETNA INC NEW	COM	00817Y108	361	3,614	SH			X
AFFILIATED COMPTR SVS	CL A	008190100	3,594	64,560	SH	X		
AFFILIATED COMPTR SVS	CL A	008190100	7	134	SH			X
AIR PRODS & CHEMS INC	COM	009158106	708	13,017	SH	X		
AIR PRODS & CHEMS INC	COM	009158106	1,021	18,768	SH			X
ALBERTO CULVER CO	COM	013068101	239	5,497	SH	X		
ALBERTO CULVER CO	COM	013068101	2	57	SH			X
ALBERTSONS INC	COM	013104104	2,672	111,658	SH	X		
ALBERTSONS INC	COM	013104104	98	4,093	SH			X
ALCOA INC	COM	013817101	13,872	412,971	SH	X		
ALCOA INC	COM	013817101	1,911	56,891	SH			X
ALLEGHENY ENERGY INC	COM	017361106	305	19,132	SH	X		
ALLEGHENY ENERGY INC	COM	017361106	5	314	SH			X
ALLETE INC	COM NEW	018522300	338	10,409	SH	X		
ALLETE INC	COM NEW	018522300	16	486	SH			X
ALLIANT ENERGY CORP	COM	018802108	1,983	79,715	SH	X		
ALLIANT ENERGY CORP	COM	018802108	154	6,178	SH			X
ALLSTATE CORP	COM	020002101	2,924	60,932	SH	X		
ALLSTATE CORP	COM	020002101	409	8,519	SH			X
ALLTEL CORP	COM	020039103	9,142	166,488	SH	X		
ALLTEL CORP	COM	020039103	68	1,241	SH			X
ALTERA CORP	COM	021441100	251	12,824	SH	X		
ALTERA CORP	COM	021441100	8	433	SH			X
ALTRIA GROUP INC	COM	02209S103	71,133	1,512,176	SH	X		
ALTRIA GROUP INC	COM	02209S103	9,694	206,083	SH			X
AMBAC FINL GROUP INC	COM	023139108	3,505	43,839	SH	X		
AMBAC FINL GROUP INC	COM	023139108	10	122	SH			X
AMCOL INTL CORP	COM	02341W103	8	441	SH	X		
AMCOL INTL CORP	COM	02341W103	694	36,287	SH			X
AMEDISYS INC	COM	023436108	2,936	98,030	SH	X		
AMEREN CORP	COM	023608102	2,619	56,744	SH	X		
AMEREN CORP	COM	023608102	90	1,947	SH			X
AMCORE FINL INC	COM	023912108	231	8,142	SH	X		
AMCORE FINL INC	COM	023912108	434	15,297	SH			X
AMERICAN ELEC PWR	COM	025537101	4,274	133,716	SH	X		
AMERICAN ELEC PWR	COM	025537101	141	4,424	SH			X
AMERICAN EXPRESS CO	COM	025816109	13,672	265,678	SH	X		
AMERICAN EXPRESS CO	COM	025816109	2,050	39,846	SH			X
AMERICAN HEALTHWAYS	COM	02649V104	2,572	88,342	SH	X		
AMERICAN INTL GROUP	COM	026874107	23,892	351,407	SH	X		
AMERICAN INTL GROUP	COM	026874107	3,179	46,758	SH			X
AMERICAN PWR CONVRSN	COM	029066107	185	10,659	SH	X		
AMERICAN PWR CONVRSN	COM	029066107	8	435	SH			X

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AMERICAN STD COS INC	COM	029712106	409	10,518	SH	X		
AMERICAN STD COS INC	COM	029712106	15	382	SH			X
AMERISOURCEBERGEN CRP	COM	03073E105	10,696	199,148	SH	X		
AMERISOURCEBERGEN CRP	COM	03073E105	2	31	SH			X
AMERITRADE HLDG CORP	COM	03074K100	175	14,600	SH	X		
AMGEN INC	COM	031162100	11,456	202,123	SH	X		
AMGEN INC	COM	031162100	2,450	43,226	SH			X
AMSOUTH BANCORP	COM	032165102	3,784	155,093	SH	X		
AMSOUTH BANCORP	COM	032165102	28	1,129	SH			X
AMYLIN PHARMACEUTICLS	COM	032346108	4,596	224,000	SH	X		
ANADARKO PETE CORP	COM	032511107	9,207	138,745	SH	X		
ANADARKO PETE CORP	COM	032511107	1,094	16,493	SH			X
ANALOG DEVICES INC	COM	032654105	1,842	47,499	SH	X		

MARSHALL & ILSLEY TRUST CO N.A.
SECURITIES AND EXCHANGE COMMISSION FORM 13F
ASSETS AS OF 09/30/04

NAME OF ISSUER	CLASS	CUSIP	MARKET VALUE (X\$1000)	SHRS OR PRN AMT	SH/ PUT/ PRN CALL	SOLE (A)	SHR (B)	OTHER (C)
ANALOG DEVICES INC	COM	032654105	5	123	SH			X
ANCHOR BANCORP WIS	COM	032839102	2,731	105,428	SH	X		
ANCHOR BANCORP WIS	COM	032839102	709	27,380	SH			X
ANDREW CORP	COM	034425108	148	12,062	SH	X		
ANDREW CORP	COM	034425108	4	340	SH			X
ANHEUSER BUSCH COS	COM	035229103	3,414	68,352	SH	X		
ANHEUSER BUSCH COS	COM	035229103	2,048	40,991	SH			X
ANIMAS CORP DEL	COM	03525Y105	2,076	128,930	SH	X		
ANIXTER INTL INC	COM	035290105	2,912	82,999	SH	X		
ANTHEM INC	COM	03674B104	461	5,289	SH	X		
ANTHEM INC	COM	03674B104	10	109	SH			X
APACHE CORP	COM	037411105	901	17,980	SH	X		
APACHE CORP	COM	037411105	82	1,628	SH			X
APOLLO GROUP INC	CL A	037604105	654	8,912	SH	X		
APOLLO GROUP INC	CL A	037604105	10	142	SH			X
APRIA HEALTHCARE GRP	COM	037933108	9,243	339,198	SH	X		
APPLIED MATLS INC	COM	038222105	8,522	516,792	SH	X		
APPLIED MATLS INC	COM	038222105	703	42,608	SH			X
ARCH COAL INC	COM	039380100	11,001	309,974	SH	X		
ARCHER DANIELS MIDLND	COM	039483102	1,339	78,878	SH	X		
ARCHER DANIELS MIDLND	COM	039483102	16	931	SH			X
ARM HLDGS PLC	SPN ADR	042068106	92	20,200	SH	X		
ARVINMERITOR INC	COM	043353101	535	28,547	SH	X		
ARVINMERITOR INC	COM	043353101	1	49	SH			X
ASHLAND INC	COM	044204105	1,363	24,303	SH	X		
ASHLAND INC	COM	044204105	2	37	SH			X
ASSOCIATED BANC CORP	COM	045487105	7,621	237,646	SH	X		
ASSOCIATED BANC CORP	COM	045487105	2,220	69,236	SH			X
ASSURANT INC	COM	04621X108	260	10,000	SH	X		
AUTODESK INC	COM	052769106	2,678	55,059	SH	X		
AUTODESK INC	COM	052769106	18	362	SH			X
AUTOLIV INC	COM	052800109	2,853	70,610	SH	X		
AUTOLIV INC	COM	052800109	26	643	SH			X
AUTOMATIC DATA PROC	COM	053015103	811	19,630	SH	X		
AUTOMATIC DATA PROC	COM	053015103	450	10,894	SH			X
AUTOZONE INC	COM	053332102	325	4,202	SH	X		

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AUTOZONE INC	COM	053332102	13	166	SH			X
AVAYA INC	COM	053499109	523	37,494	SH	X		
AVAYA INC	COM	053499109	16	1,181	SH			X
AVERY DENNISON CORP	COM	053611109	103	1,572	SH	X		
AVERY DENNISON CORP	COM	053611109	132	2,000	SH			X
AVID TECHNOLOGY INC	COM	05367P100	3,165	67,531	SH	X		
AVOCENT CORP	COM	053893103	3,850	147,896	SH	X		
AVON PRODS INC	COM	054303102	439	10,040	SH	X		
AVON PRODS INC	COM	054303102	29	653	SH			X
BB&T CORP	COM	054937107	7,426	187,093	SH	X		
BB&T CORP	COM	054937107	68	1,720	SH			X
BISYS GROUP INC	COM	055472104	9,539	652,892	SH	X		
BP PLC	SPN ADR	055622104	10,887	189,245	SH	X		
BP PLC	SPN ADR	055622104	5,583	97,047	SH			X
BMC SOFTWARE INC	COM	055921100	6,998	442,640	SH	X		
BMC SOFTWARE INC	COM	055921100	106	6,720	SH			X
BADGER METER INC	COM	056525108	14,904	326,484	SH	X		
BADGER METER INC	COM	056525108	347	7,600	SH			X
BAKER HUGHES INC	COM	057224107	170	3,897	SH	X		
BAKER HUGHES INC	COM	057224107	58	1,325	SH			X
BANCO SANTANDER CENT	ADR	05964H105	113	11,550	SH	X		
BANCO SANTANDER CENT	ADR	05964H105	36	3,725	SH			X
BANK OF AMERICA CORP	COM	060505104	43,587	1,005,937	SH	X		
BANK OF AMERICA CORP	COM	060505104	2,725	62,892	SH			X
BANK MUTUAL CORP NEW	COM	063750103	262	21,798	SH	X		
BANK MUTUAL CORP NEW	COM	063750103	224	18,630	SH			X
BANK NEW YORK INC	COM	064057102	1,207	41,366	SH	X		
BANK NEW YORK INC	COM	064057102	640	21,947	SH			X
BANTA CORP	COM	066821109	193	4,867	SH	X		
BANTA CORP	COM	066821109	40	1,000	SH			X
BARD C R INC	COM	067383109	647	11,427	SH	X		
BARD C R INC	COM	067383109	1,169	20,646	SH			X
BARR PHARMACEUTICALS	COM	068306109	2,536	61,223	SH	X		
BAUSCH & LOMB INC	COM	071707103	8,708	131,043	SH	X		
BAUSCH & LOMB INC	COM	071707103	11	160	SH			X
BAXTER INTL INC	COM	071813109	6,510	202,421	SH	X		
BAXTER INTL INC	COM	071813109	336	10,439	SH			X
BEAR STEARNS COS INC	COM	073902108	482	5,010	SH	X		
BEAR STEARNS COS INC	COM	073902108	11	117	SH			X
BECTON DICKINSON & CO	COM	075887109	331	6,399	SH	X		
BECTON DICKINSON & CO	COM	075887109	9	166	SH			X
BED BATH & BEYOND INC	COM	075896100	3,163	85,243	SH	X		
BED BATH & BEYOND INC	COM	075896100	250	6,727	SH			X
BELLSOUTH CORP	COM	079860102	19,999	737,414	SH	X		
BELLSOUTH CORP	COM	079860102	2,018	74,427	SH			X
BEMIS INC	COM	081437105	220	8,273	SH	X		
BERKSHIRE HATHAWAY	CL A	084670108	1,213	14	SH	X		
BERKSHIRE HATHAWAY	CL A	084670108	1,213	14	SH			X
BERKSHIRE HATHAWAY	CL B	084670207	2,805	977	SH	X		
BERKSHIRE HATHAWAY	CL B	084670207	850	296	SH			X
BEST BUY INC	COM	086516101	1,681	30,993	SH	X		
BEST BUY INC	COM	086516101	624	11,503	SH			X
BIG LOTS INC	COM	089302103	174	14,262	SH	X		
BIOMET INC	COM	090613100	862	18,382	SH	X		
BIOMET INC	COM	090613100	101	2,164	SH			X
BIOGEN IDEC INC	COM	09062X103	234	3,828	SH	X		
BIOGEN IDEC INC	COM	09062X103	380	6,206	SH			X
BIOMIRA INC	COM	09161R106	40	27,500	SH	X		

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MARSHALL & ILSLEY TRUST CO N.A.
 SECURITIES AND EXCHANGE COMMISSION FORM 13F
 ASSETS AS OF 09/30/04

NAME OF ISSUER	CLASS	CUSIP	MARKET VALUE (X\$1000)	SHRS OR PRN AMT	SH/ PUT/ SOLE CALL	SOLE (A)	SHR (B)	OTHR (C)
BLACK & DECKER CORP	COM	091797100	515	6,646	SH	X		
BLACK & DECKER CORP	COM	091797100	9	114	SH			X
BLOCK H & R INC	COM	093671105	535	10,832	SH	X		
BLOCK H & R INC	COM	093671105	64	1,296	SH			X
BOEING CO	COM	097023105	10,342	200,344	SH	X		
BOEING CO	COM	097023105	690	13,364	SH			X
BOSTON SCIENTIFIC CRP	COM	101137107	2,921	73,531	SH	X		
BOSTON SCIENTIFIC CRP	COM	101137107	50	1,255	SH			X
BOWATER INC	COM	102183100	8,150	213,402	SH	X		
BRADY CORP	CL A	104674106	64	1,314	SH	X		
BRADY CORP	CL A	104674106	1,263	25,900	SH			X
BRIGGS & STRATTON CRP	COM	109043109	187	2,303	SH	X		
BRIGGS & STRATTON CRP	COM	109043109	341	4,200	SH			X
BRISTOL MYERS SQUIBB	COM	110122108	21,449	906,149	SH	X		
BRISTOL MYERS SQUIBB	COM	110122108	1,781	75,253	SH			X
BROCADE COMM	COM	111621108	2,390	422,940	SH	X		
BRUNSWICK CORP	COM	117043109	11,229	245,393	SH	X		
BRUNSWICK CORP	COM	117043109	7	149	SH			X
BURLINGTON NORTHN S F	COM	12189T104	1,953	50,966	SH	X		
BURLINGTON NORTHN S F	COM	12189T104	428	11,181	SH			X
BURLINGTON RES INC	COM	122014103	12,638	309,759	SH	X		
BURLINGTON RES INC	COM	122014103	388	9,514	SH			X
CB RICHARD ELLIS GRP	CL A	12497T101	2,383	103,170	SH	X		
C D W CORP	COM	12512N105	3,251	56,031	SH	X		
C D W CORP	COM	12512N105	12	200	SH			X
CIGNA CORP	COM	125509109	1,101	15,810	SH	X		
CSX CORP	COM	126408103	7,830	235,851	SH	X		
CSX CORP	COM	126408103	7	200	SH			X
CVS CORP	COM	126650100	9,789	232,363	SH	X		
CVS CORP	COM	126650100	100	2,373	SH			X
CALPINE CORP	COM	131347106	78	26,836	SH	X		
CALPINE CORP	COM	131347106	1	517	SH			X
CAMPBELL SOUP CO	COM	134429109	371	14,128	SH	X		
CAMPBELL SOUP CO	COM	134429109	25	953	SH			X
CAPITAL ONE FINL CORP	COM	14040H105	297	4,016	SH	X		
CAPITAL ONE FINL CORP	COM	14040H105	9	128	SH			X
CARDINAL HEALTH INC	COM	14149Y108	1,557	35,567	SH	X		
CARDINAL HEALTH INC	COM	14149Y108	475	10,849	SH			X
CAREMARK RX INC	COM	141705103	4,678	145,868	SH	X		
CAREMARK RX INC	COM	141705103	35	1,080	SH			X
CARNIVAL CORP	PRD CTF	143658300	2,262	47,842	SH	X		
CARNIVAL CORP	PRD CTF	143658300	366	7,739	SH			X
CATERPILLAR INC DEL	COM	149123101	1,186	14,736	SH	X		
CATERPILLAR INC DEL	COM	149123101	966	12,011	SH			X
CELL THERAPEUTICS INC	COM	150934107	137	20,000	SH	X		
CENDANT CORP	COM	151313103	2,206	102,151	SH	X		
CENDANT CORP	COM	151313103	12	574	SH			X
CENTENE CORP DEL	COM	15135B101	3,105	72,933	SH	X		
CENTERPOINT ENERGY	COM	15189T107	2,065	199,304	SH	X		
CENTERPOINT ENERGY	COM	15189T107	29	2,794	SH			X
CENTEX CORP	COM	152312104	315	6,249	SH	X		
CENTEX CORP	COM	152312104	6	120	SH			X
CHECKFREE CORP NEW	COM	162813109	3,938	142,335	SH	X		

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CHECKPOINT SYS INC	COM	162825103	251	16,108	SH	X		
CHEMICAL FINL CORP	COM	163731102	73	2,005	SH	X		
CHEMICAL FINL CORP	COM	163731102	441	12,083	SH			X
CHESAPEAKE ENERGY CRP	COM	165167107	5,385	340,170	SH	X		
CHESAPEAKE ENERGY CRP	COM	165167107	160	10,085	SH			X
CHEVRONTEXACO CORP	COM	166764100	56,945	1,061,623	SH	X		
CHEVRONTEXACO CORP	COM	166764100	5,469	101,966	SH			X
CHOICEPOINT INC	COM	170388102	2,949	69,154	SH	X		
CHUBB CORP	COM	171232101	11,758	167,306	SH	X		
CHUBB CORP	COM	171232101	629	8,957	SH			X
CINCINNATI FINL CORP	COM	172062101	223	5,408	SH	X		
CINCINNATI FINL CORP	COM	172062101	8	202	SH			X
CINERGY CORP	COM	172474108	9,199	232,292	SH	X		
CINERGY CORP	COM	172474108	89	2,255	SH			X
CISCO SYS INC	COM	17275R102	15,629	863,486	SH	X		
CISCO SYS INC	COM	17275R102	1,571	86,806	SH			X
CINTAS CORP	COM	172908105	206	4,893	SH	X		
CINTAS CORP	COM	172908105	206	4,900	SH			X
CITIGROUP INC	COM	172967101	55,819	1,265,164	SH	X		
CITIGROUP INC	COM	172967101	3,809	86,330	SH			X
CITIZENS BKG CRP MICH	COM	174420109	221	6,800	SH	X		
CITIZENS BKG CRP MICH	COM	174420109	304	9,324	SH			X
CITIZENS COMM	COM	17453B101	10,172	759,661	SH	X		
CITIZENS COMM	COM	17453B101	12	897	SH			X
CITRIX SYS INC	COM	177376100	386	22,014	SH	X		
CITRIX SYS INC	COM	177376100	5	279	SH			X
CITY NATL CORP	COM	178566105	4,978	76,650	SH	X		
CLARCOR INC	COM	179895107	25	523	SH	X		
CLARCOR INC	COM	179895107	334	7,000	SH			X
CLEAR CHANNEL COMM	COM	184502102	269	8,634	SH	X		
CLEAR CHANNEL COMM	COM	184502102	60	1,927	SH			X
CLOROX CO DEL	COM	189054109	671	12,597	SH	X		
CLOROX CO DEL	COM	189054109	135	2,540	SH			X
COCA COLA CO	COM	191216100	15,389	384,237	SH	X		
COCA COLA CO	COM	191216100	3,939	98,357	SH			X
COCA COLA ENTERPRISES	COM	191219104	7,461	394,740	SH	X		
COCA COLA ENTERPRISES	COM	191219104	1	70	SH			X
COGNOS INC	COM	19244C109	3,944	111,030	SH	X		
COGNOS INC	COM	19244C109	11	310	SH			X
COGNIZANT TECH SOL	CL A	192446102	3,718	121,851	SH	X		
COGNIZANT TECH SOL	CL A	192446102	1	45	SH			X

MARSHALL & ILSLEY TRUST CO N.A.
SECURITIES AND EXCHANGE COMMISSION FORM 13F
ASSETS AS OF 09/30/04

NAME OF ISSUER	CLASS	CUSIP	MARKET VALUE (X\$1000)	SHRS OR PRN AMT	SH/ PUT/ SOLE CALL	INVSTMNT SHR (A)	DSCN OTHER (B)	(C)
COLGATE PALMOLIVE CO	COM	194162103	2,565	56,783	SH	X		
COLGATE PALMOLIVE CO	COM	194162103	1,489	32,948	SH			X
COMCAST CORP NEW	CL A	20030N101	5,348	189,372	SH	X		
COMCAST CORP NEW	CL A	20030N101	256	9,051	SH			X
COMERICA INC	COM	200340107	11,549	194,587	SH	X		
COMERICA INC	COM	200340107	405	6,825	SH			X
COMPUTER SCIENCES CRP	COM	205363104	7,553	160,366	SH	X		
COMPUTER SCIENCES CRP	COM	205363104	8	171	SH			X

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COMVERSE TECHNOLOGY	COM PAR \$0.10	205862402	3,924	208,384	SH	X	
COMVERSE TECHNOLOGY	COM PAR \$0.10	205862402	75	4,000	SH		X
CONAGRA FOODS INC	COM	205887102	4,692	182,479	SH	X	
CONAGRA FOODS INC	COM	205887102	59	2,294	SH		X
CONOCOPHILLIPS	COM	20825C104	5,353	64,607	SH	X	
CONOCOPHILLIPS	COM	20825C104	231	2,792	SH		X
CONSOLIDATED EDISON	COM	209115104	3,447	81,998	SH	X	
CONSOLIDATED EDISON	COM	209115104	111	2,630	SH		X
CONSTELLATION ENERGY	COM	210371100	7,486	187,894	SH	X	
CONSTELLATION ENERGY	COM	210371100	31	774	SH		X
CONTANGO OIL & GAS CO	COM NEW	21075N204	1,529	228,880	SH	X	
CONVERGYS CORP	COM	212485106	6,471	481,815	SH	X	
CORNING INC	COM	219350105	322	29,081	SH	X	
CORNING INC	COM	219350105	20	1,848	SH		X
COSTCO WHSL CORP NEW	COM	22160K105	1,826	43,929	SH	X	
COSTCO WHSL CORP NEW	COM	22160K105	86	2,078	SH		X
COUNTRYWIDE FINANCIAL	COM	222372104	14,636	371,572	SH	X	
COUNTRYWIDE FINANCIAL	COM	222372104	461	11,709	SH		X
CULLEN FROST BANKERS	COM	229899109	2,175	46,797	SH	X	
DJ ORTHOPEDICS INC	COM	23325G104	1,455	82,460	SH	X	
DTE ENERGY CO	COM	233331107	2,143	50,795	SH	X	
DTE ENERGY CO	COM	233331107	40	958	SH		X
DANAHER CORP DEL	COM	235851102	435	8,492	SH	X	
DANAHER CORP DEL	COM	235851102	58	1,136	SH		X
DEAN FOODS CO NEW	COM	242370104	302	10,076	SH	X	
DEAN FOODS CO NEW	COM	242370104	2	80	SH		X
DEERE & CO	COM	244199105	311	4,822	SH	X	
DEERE & CO	COM	244199105	223	3,453	SH		X
DELL INC	COM	24702R101	15,452	434,036	SH	X	
DELL INC	COM	24702R101	2,077	58,344	SH		X
DELPHI CORP	COM	247126105	472	50,793	SH	X	
DELPHI CORP	COM	247126105	4	404	SH		X
DENBURY RES INC	COM NEW	247916208	5,939	233,800	SH	X	
DELUXE CORP	COM	248019101	2,014	49,086	SH	X	
DELUXE CORP	COM	248019101	11	277	SH		X
DEVON ENERGY CORP NEW	COM	25179M103	2,113	29,759	SH	X	
DEVON ENERGY CORP NEW	COM	25179M103	33	463	SH		X
DIAMONDCLUSTER INTL	COM	25278P106	2,200	180,350	SH	X	
DIEBOLD INC	COM	253651103	83	1,778	SH	X	
DIEBOLD INC	COM	253651103	290	6,200	SH		X
DIGENE CORP	COM	253752109	2,142	82,500	SH	X	
DISNEY WALT CO	COM DSNY	254687106	9,399	416,785	SH	X	
DISNEY WALT CO	COM DSNY	254687106	1,336	59,262	SH		X
DOLLAR GEN CORP	COM	256669102	270	13,380	SH	X	
DOLLAR GEN CORP	COM	256669102	21	1,036	SH		X
DOMINION RES INC VA	COM	25746U109	6,668	102,193	SH	X	
DOMINION RES INC VA	COM	25746U109	52	794	SH		X
DONNELLEY R R & SONS	COM	257867101	13,518	431,596	SH	X	
DONNELLEY R R & SONS	COM	257867101	50	1,597	SH		X
DORAL FINL CORP	COM	25811P100	3,974	95,840	SH	X	
DOVER CORP	COM	260003108	2,808	72,234	SH	X	
DOVER CORP	COM	260003108	16	420	SH		X
DOW CHEM CO	COM	260543103	17,777	393,475	SH	X	
DOW CHEM CO	COM	260543103	992	21,966	SH		X
DOW JONES & CO INC	COM	260561105	386	9,510	SH	X	
DOW JONES & CO INC	COM	260561105	5	127	SH		X
DU PONT E I DE NEMOURS	COM	263534109	17,114	399,863	SH	X	
DU PONT E I DE NEMOURS	COM	263534109	1,220	28,515	SH		X
DUKE ENERGY CORP	COM	264399106	4,863	212,464	SH	X	
DUKE ENERGY CORP	COM	264399106	84	3,676	SH		X
DUN & BRADSTREET CORP	COM	26483E100	216	3,680	SH	X	
DYCOM INDS INC	COM	267475101	203	7,156	SH	X	

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EGL INC	COM	268484102	219	7,243	SH	X		
E M C CORP MASS	COM	268648102	1,966	170,361	SH	X		
E M C CORP MASS	COM	268648102	68	5,870	SH			X
ENSCO INTL INC	COM	26874Q100	9,654	295,507	SH	X		
ENSCO INTL INC	COM	26874Q100	338	10,350	SH			X
EOG RES INC	COM	26875P101	293	4,444	SH	X		
EOG RES INC	COM	26875P101	17	262	SH			X
EASTMAN CHEM CO	COM	277432100	916	19,264	SH	X		
EASTMAN CHEM CO	COM	277432100	41	862	SH			X
EATON CORP	COM	278058102	507	7,990	SH	X		
EATON CORP	COM	278058102	466	7,344	SH			X
EBAY INC	COM	278642103	2,790	30,341	SH	X		
EBAY INC	COM	278642103	98	1,069	SH			X
ECOLAB INC	COM	278865100	855	27,210	SH	X		
ECOLAB INC	COM	278865100	267	8,493	SH			X
EDISON INTL	COM	281020107	2,917	110,017	SH	X		
EDISON INTL	COM	281020107	72	2,713	SH			X
EDWARDS LIFESCIENCES	COM	28176E108	6,536	195,097	SH	X		
EDWARDS LIFESCIENCES	COM	28176E108	15	440	SH			X
ELECTRONIC ARTS INC	COM	285512109	990	21,527	SH	X		
ELECTRONIC ARTS INC	COM	285512109	26	566	SH			X
EMERSON ELEC CO	COM	291011104	4,282	69,188	SH	X		
EMERSON ELEC CO	COM	291011104	1,384	22,359	SH			X
ENBRIDGE ENERGY PTNRS	COM	29250R106	411	8,600	SH	X		

MARSHALL & ILSLEY TRUST CO N.A.
SECURITIES AND EXCHANGE COMMISSION FORM 13F
ASSETS AS OF 09/30/04

NAME OF ISSUER	TITLE OF CLASS	CUSIP	MARKET VALUE (X\$1000)	SHRS OR PRN AMT	SH/ PUT/ SOLE PRN CALL	INVSTMT (A)	DSC (B)	OTHER (C)
ENTERGY CORP NEW	COM	29364G103	4,263	70,342	SH	X		
ENTERGY CORP NEW	COM	29364G103	72	1,195	SH			X
EQUIFAX INC	COM	294429105	295	11,183	SH	X		
EQUIFAX INC	COM	294429105	10	368	SH			X
EQUITY OFFICE PROP	COM	294741103	3,543	130,029	SH	X		
EQUITY OFFICE PROP	COM	294741103	63	2,317	SH			X
EQUITY RESIDENTIAL	SH BEN INT	29476L107	2,359	76,095	SH	X		
EQUITY RESIDENTIAL	SH BEN INT	29476L107	24	781	SH			X
ERICSSON L M TEL CO	ADR B SEK 10	294821608	5,183	165,909	SH	X		
ERICSSON L M TEL CO	ADR B SEK 10	294821608	286	9,140	SH			X
EXELON CORP	COM	30161N101	9,106	248,177	SH	X		
EXELON CORP	COM	30161N101	120	3,266	SH			X
EXPEDITORS INTL WASH	COM	302130109	3,821	73,913	SH	X		
EXPLORATION CO	COM NEW	302133202	1,713	376,440	SH	X		
EXXON MOBIL CORP	COM	30231G102	61,443	1,271,319	SH	X		
EXXON MOBIL CORP	COM	30231G102	17,919	370,762	SH			X
FPL GROUP INC	COM	302571104	5,127	75,043	SH	X		
FPL GROUP INC	COM	302571104	507	7,424	SH			X
FASTENAL CO	COM	311900104	605	10,507	SH	X		
FASTENAL CO	COM	311900104	313	5,434	SH			X
FEDERAL HOME LN MTG	COM	313400301	14,694	225,226	SH	X		
FEDERAL HOME LN MTG	COM	313400301	1,570	24,071	SH			X
FEDERAL NATL MTG ASSN	COM	313586109	21,290	335,800	SH	X		
FEDERAL NATL MTG ASSN	COM	313586109	1,439	22,704	SH			X
FEDERATED DEPT STORES	COM	31410H101	1,008	22,188	SH	X		

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FEDERATED DEPT STORES	COM	31410H101	53	1,160	SH			X
FEDEX CORP	COM	31428X106	11,447	133,582	SH		X	
FEDEX CORP	COM	31428X106	1,312	15,307	SH			X
FIFTH THIRD BANCORP	COM	316773100	1,927	39,141	SH		X	
FIFTH THIRD BANCORP	COM	316773100	1,174	23,846	SH			X
FIRST FED CAP CORP	COM	319960100	142	4,687	SH		X	
FIRST FED CAP CORP	COM	319960100	1,551	51,306	SH			X
FIRST DATA CORP	COM	319963104	3,274	75,262	SH		X	
FIRST DATA CORP	COM	319963104	234	5,373	SH			X
FIRST HORIZON NATL	COM	320517105	884	20,379	SH		X	
FIRST HORIZON NATL	COM	320517105	112	2,582	SH			X
1ST SOURCE CORP	COM	336901103	1,260	49,140	SH			X
FISERV INC	COM	337738108	4,418	126,726	SH		X	
FISERV INC	COM	337738108	271	7,784	SH			X
FIRSTENERGY CORP	COM	337932107	6,963	169,508	SH		X	
FIRSTENERGY CORP	COM	337932107	43	1,037	SH			X
FOOT LOCKER INC	COM	344849104	3,001	126,624	SH		X	
FOOT LOCKER INC	COM	344849104	1	45	SH			X
FORD MTR CO DEL	COM PAR \$0.01	345370860	1,282	91,235	SH		X	
FORD MTR CO DEL	COM PAR \$0.01	345370860	547	38,907	SH			X
FOREST LABS INC	COM	345838106	510	11,351	SH		X	
FOREST LABS INC	COM	345838106	492	10,940	SH			X
FORTUNE BRANDS INC	COM	349631101	2,272	30,664	SH		X	
FORTUNE BRANDS INC	COM	349631101	555	7,488	SH			X
FOSSIL INC	COM	349882100	3,816	123,323	SH		X	
FOSSIL INC	COM	349882100	11	360	SH			X
FREEPOR-T-MCMORAN CPPR	CL B	35671D857	271	6,698	SH		X	
FREEPOR-T-MCMORAN CPPR	CL B	35671D857	22	545	SH			X
GALLAHER GROUP PLC	SPN ADR	363595109	343	7,382	SH		X	
GALLAHER GROUP PLC	SPN ADR	363595109	147	3,160	SH			X
GANNETT INC	COM	364730101	10,146	121,135	SH		X	
GANNETT INC	COM	364730101	1,388	16,576	SH			X
GAP INC DEL	COM	364760108	426	22,861	SH		X	
GAP INC DEL	COM	364760108	513	27,508	SH			X
GEHL CO	COM	368483103	515	26,000	SH			X
GEN-PROBE INC NEW	COM	36866T103	3,218	80,700	SH		X	
GEN-PROBE INC NEW	COM	36866T103	5	116	SH			X
GENENTECH INC	COM NEW	368710406	5,827	111,162	SH		X	
GENENTECH INC	COM NEW	368710406	813	15,508	SH			X
GENERAL COMMUNICATION	CL A	369385109	203	22,424	SH		X	
GENERAL DYNAMICS CORP	COM	369550108	2,445	23,945	SH		X	
GENERAL DYNAMICS CORP	COM	369550108	10	98	SH			X
GENERAL ELEC CO	COM	369604103	83,494	2,486,412	SH		X	
GENERAL ELEC CO	COM	369604103	16,092	479,223	SH			X
GENERAL MLS INC	COM	370334104	2,216	49,364	SH		X	
GENERAL MLS INC	COM	370334104	1,034	23,028	SH			X
GENERAL MTRS CORP	COM	370442105	6,794	159,939	SH		X	
GENERAL MTRS CORP	COM	370442105	572	13,456	SH			X
GENUINE PARTS CO	COM	372460105	2,158	56,215	SH		X	
GENUINE PARTS CO	COM	372460105	118	3,086	SH			X
GEORGIA PAC CORP	COM	373298108	381	10,598	SH		X	
GEORGIA PAC CORP	COM	373298108	404	11,232	SH			X
GILEAD SCIENCES INC	COM	375558103	4,686	125,356	SH		X	
GILEAD SCIENCES INC	COM	375558103	9	237	SH			X
GILLETTE CO	COM	375766102	13,270	317,913	SH		X	
GILLETTE CO	COM	375766102	1,903	45,599	SH			X
GLAXOSMITHKLINE PLC	SPN ADR	37733W105	959	21,940	SH		X	
GLAXOSMITHKLINE PLC	SPN ADR	37733W105	834	19,062	SH			X
GLENAYRE TECHNOLOGIES	COM	377899109	18	10,000	SH		X	
GLOBAL PMTS INC	COM	37940X102	9,107	170,066	SH		X	
GOLDEN WEST FINL CORP	COM	381317106	394	3,552	SH		X	
GOLDEN WEST FINL CORP	COM	381317106	19	174	SH			X

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GOLDMAN SACHS GROUP	COM	38141G104	10,493	112,541 SH	X	
GOLDMAN SACHS GROUP	COM	38141G104	1,348	14,457 SH		X
GRAINGER W W INC	COM	384802104	9,448	163,878 SH	X	
GRAINGER W W INC	COM	384802104	73	1,269 SH		X
GREENPOINT FINANCIAL	COM	395384100	44	944 SH	X	
GREENPOINT FINANCIAL	COM	395384100	389	8,400 SH		X
GTECH HLDGS CORP	COM	400518106	3,265	128,958 SH	X	

MARSHALL & ILSLEY TRUST CO N.A.
SECURITIES AND EXCHANGE COMMISSION FORM 13F
ASSETS AS OF 09/30/04

NAME OF ISSUER	CLASS	CUSIP	MARKET VALUE (X\$1000)	SHRS OR PRN AMT	SH/ PUT/ SOLE PRN CALL	INVTMNT DSC
COLUMN 1	COL2	COL3	COL4	COLUMN 5	COLUMN 6	COL7
NAME OF ISSUER	CLASS	CUSIP	MARKET VALUE (X\$1000)	SHRS OR PRN AMT	SH/ PUT/ SOLE PRN CALL	INVTMNT DSC
GTECH HLDGS CORP	COM	400518106	182	7,190 SH		X
GUIDANT CORP	COM	401698105	6,427	97,324 SH	X	
GUIDANT CORP	COM	401698105	792	11,987 SH		X
HCA INC	COM	404119109	2,261	59,266 SH	X	
HCA INC	COM	404119109	80	2,090 SH		X
HSBC HLDGS PLC	SPN ADR NEW	404280406	659	8,262 SH	X	
HSBC HLDGS PLC	SPN ADR NEW	404280406	596	7,469 SH		X
HALLIBURTON CO	COM	406216101	2,722	80,810 SH	X	
HALLIBURTON CO	COM	406216101	152	4,513 SH		X
HARLEY DAVIDSON INC	COM	412822108	15,573	261,990 SH	X	
HARLEY DAVIDSON INC	COM	412822108	2,388	40,172 SH		X
HARRIS CORP DEL	COM	413875105	1,132	20,608 SH	X	
HARTFORD FINL SVCS GRP	COM	416515104	3,217	51,944 SH	X	
HARTFORD FINL SVCS GRP	COM	416515104	141	2,272 SH		X
HARVEST NATURAL RES	COM	41754V103	2,398	144,430 SH	X	
HAWAIIAN ELEC IND	COM	419870100	357	13,447 SH	X	
HEALTH EXTRAS INC	COM	422211102	245	17,600 SH	X	
HEARTLAND FINL USA	COM	42234Q102	220	11,904 SH	X	
HEINZ H J CO	COM	423074103	7,060	195,990 SH	X	
HEINZ H J CO	COM	423074103	546	15,148 SH		X
HERSHEY FOODS CORP	COM	427866108	661	14,145 SH	X	
HERSHEY FOODS CORP	COM	427866108	203	4,356 SH		X
HEWLETT PACKARD CO	COM	428236103	3,943	210,288 SH	X	
HEWLETT PACKARD CO	COM	428236103	753	40,135 SH		X
HIBERNIA CORP	CL A	428656102	203	7,696 SH	X	
HILB ROGAL & HOBBS	COM	431294107	239	6,590 SH	X	
HILTON HOTELS CORP	COM	432848109	2,243	119,062 SH	X	
HILTON HOTELS CORP	COM	432848109	13	683 SH		X
HOME DEPOT INC	COM	437076102	8,736	222,844 SH	X	
HOME DEPOT INC	COM	437076102	1,292	32,947 SH		X
HONEYWELL INTL INC	COM	438516106	2,865	79,884 SH	X	
HONEYWELL INTL INC	COM	438516106	436	12,151 SH		X
HOSPIRA INC	COM	441060100	532	17,398 SH	X	
HOSPIRA INC	COM	441060100	81	2,643 SH		X
HOUSTON EXPL CO	COM	442120101	415	7,000 SH	X	
HUBBELL INC	CL B	443510201	8,557	190,884 SH	X	
HUDSON UNITED BANCORP	COM	444165104	205	5,575 SH	X	
HUNTINGTON BANCSHARES	COM	446150104	629	25,270 SH	X	
HUNTINGTON BANCSHARES	COM	446150104	22	901 SH		X
HYPERION SOLUTIONS	COM	44914M104	1,415	41,628 SH	X	
HYPERION SOLUTIONS	COM	44914M104	3	100 SH		X
IMS HEALTH INC	COM	449934108	396	16,562 SH	X	

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NAME OF ISSUER	OF CLASS	CUSIP	VALUE (X\$1000)	SHRS OR PRN AMT	SH/ PUT/ SOLE PRN CALL (A)	SHR OTHR (B)	OTHR (C)
ISHARES TR	DJ US TECH SEC	464287721	24	559 SH			X
ISHARES TR	DJ US HLTHCR	464287762	479	8,590 SH		X	
ISHARES TR	S&P SMLCP 600	464287804	2,080	14,423 SH		X	
ISHARES TR	S&P SMLCP 600	464287804	155	1,075 SH			X
IVAX CORP	COM	465823102	3,320	173,387 SH		X	
JPMORGAN & CHASE & CO	COM	46625H100	35,775	900,463 SH		X	
JPMORGAN & CHASE & CO	COM	46625H100	4,449	111,991 SH			X
JACUZZI BRANDS INC	COM	469865109	2,209	237,475 SH		X	
JEFFERSON PILOT CORP	COM	475070108	6,079	122,417 SH		X	
JEFFERSON PILOT CORP	COM	475070108	61	1,234 SH			X
JOHNSON & JOHNSON	COM	478160104	27,205	482,955 SH		X	
JOHNSON & JOHNSON	COM	478160104	6,191	109,902 SH			X
JOHNSON CTLS INC	COM	478366107	8,693	153,025 SH		X	
JOHNSON CTLS INC	COM	478366107	1,424	25,063 SH			X
JONES APPAREL GROUP	COM	480074103	8,256	230,609 SH		X	
JONES APPAREL GROUP	COM	480074103	1	23 SH			X
JOY GLOBAL INC	COM	481165108	2,478	72,090 SH		X	
KLA-TENCOR CORP	COM	482480100	266	6,410 SH		X	
KLA-TENCOR CORP	COM	482480100	39	950 SH			X
KB HOME	COM	48666K109	243	2,881 SH		X	
KB HOME	COM	48666K109	7	88 SH			X
KELLOGG CO	COM	487836108	1,937	45,403 SH		X	
KELLOGG CO	COM	487836108	5,839	136,884 SH			X
KELLWOOD CO	COM	488044108	1,887	51,768 SH		X	
KENNAMETAL INC	COM	489170100	5,337	118,216 SH		X	
KENNAMETAL INC	COM	489170100	293	6,495 SH			X
KERR MCGEE CORP	COM	492386107	2,944	51,418 SH		X	
KERR MCGEE CORP	COM	492386107	90	1,577 SH			X
KEYCORP NEW	COM	493267108	5,022	158,924 SH		X	
KEYCORP NEW	COM	493267108	50	1,586 SH			X
KEYSPAN CORP	COM	49337W100	1,823	46,517 SH		X	
KEYSPAN CORP	COM	49337W100	61	1,545 SH			X
KIMBERLY CLARK CORP	COM	494368103	31,852	493,142 SH		X	
KIMBERLY CLARK CORP	COM	494368103	6,253	96,803 SH			X
KINDER MORGAN INC	COM	49455P101	2,691	42,836 SH		X	
KINDER MORGAN INC	COM	49455P101	24	385 SH			X
KINDER MORGAN MGT	SHS	49455U100	3,596	86,618 SH		X	
KINDER MORGAN ENERGY	UT LTD PRTNR	494550106	380	8,106 SH		X	
KINDER MORGAN ENERGY	UT LTD PRTNR	494550106	515	11,000 SH			X
KINETIC CONCEPTS INC	COM NEW	49460W208	3,180	60,520 SH		X	
KOHL'S CORP	COM	500255104	17,516	363,488 SH		X	
KOHL'S CORP	COM	500255104	3,026	62,795 SH			X
KROGER CO	COM	501044101	4,260	274,491 SH		X	
KROGER CO	COM	501044101	1	91 SH			X
KRONOS INC	COM	501052104	2,998	67,680 SH		X	
LAUDER ESTEE COS INC	CL A	518439104	5,403	129,269 SH		X	
LAUDER ESTEE COS INC	CL A	518439104	499	11,933 SH			X
LECG CORP	COM	523234102	1,918	113,410 SH		X	
LEE ENTERPRISES INC	COM	523768109	11,837	255,437 SH		X	
LEHMAN BROS HLDGS INC	COM	524908100	2,047	25,677 SH		X	
LEHMAN BROS HLDGS INC	COM	524908100	79	985 SH			X
LEXMARK INTL NEW	CL A	529771107	4,255	50,646 SH		X	
LEXMARK INTL NEW	CL A	529771107	251	2,993 SH			X
LILLY ELI & CO	COM	532457108	9,822	163,564 SH		X	
LILLY ELI & CO	COM	532457108	2,070	34,479 SH			X
LIMITED BRANDS INC	COM	532716107	1,340	60,123 SH		X	
LIMITED BRANDS INC	COM	532716107	37	1,670 SH			X

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LINCOLN NATL CORP IND	COM	534187109	5,390	114,682	SH	X		
LINCOLN NATL CORP IND	COM	534187109	520	11,060	SH			X
LINEAR TECHNOLOGY CRP	COM	535678106	325	8,965	SH	X		
LINEAR TECHNOLOGY CRP	COM	535678106	17	481	SH			X
LIZ CLAIBORNE INC	COM	539320101	8,524	225,991	SH	X		
LIZ CLAIBORNE INC	COM	539320101	38	1,017	SH			X
LOCKHEED MARTIN CORP	COM	539830109	573	10,272	SH	X		
LOCKHEED MARTIN CORP	COM	539830109	156	2,793	SH			X
LONGVIEW FIBRE CO	COM	543213102	619	40,580	SH	X		
LOWES COS INC	COM	548661107	11,491	211,427	SH	X		
LOWES COS INC	COM	548661107	710	13,055	SH			X
LUCENT TECHNOLOGIES	COM	549463107	241	75,965	SH	X		
LUCENT TECHNOLOGIES	COM	549463107	40	12,681	SH			X
MBIA INC	COM	55262C100	186	3,193	SH	X		
MBIA INC	COM	55262C100	296	5,091	SH			X
MBNA CORP	COM	55262L100	2,496	99,051	SH	X		
MBNA CORP	COM	55262L100	407	16,150	SH			X
MDU RES GROUP INC	COM	552690109	3,122	118,590	SH	X		
MDU RES GROUP INC	COM	552690109	412	15,641	SH			X
MGE ENERGY INC	COM	55277P104	2,535	79,667	SH	X		
MGE ENERGY INC	COM	55277P104	82	2,570	SH			X
MGIC INVT CORP WIS	COM	552848103	13,142	197,476	SH	X		
MGIC INVT CORP WIS	COM	552848103	964	14,485	SH			X
MSC INDL DIRECT INC	CL A	553530106	5,552	162,920	SH	X		
MANHATTAN ASSOCS INC	COM	562750109	1,893	77,499	SH	X		
MANITOWOC INC	COM	563571108	1,185	33,418	SH	X		
MANPOWER INC	COM	56418H100	13,344	299,941	SH	X		
MANPOWER INC	COM	56418H100	359	8,065	SH			X
MARATHON OIL CORP	COM	565849106	2,318	56,147	SH	X		
MARATHON OIL CORP	COM	565849106	122	2,960	SH			X
MARCUS CORP	COM	566330106	6	286	SH	X		
MARCUS CORP	COM	566330106	394	20,250	SH			X
MARSH & MCLENNAN	COM	571748102	2,188	47,823	SH	X		
MARSH & MCLENNAN	COM	571748102	212	4,626	SH			X
MARSHALL & ILSLEY CRP	COM	571834100	181,817	4,511,592	SH	X		

MARSHALL & ILSLEY TRUST CO N.A.
SECURITIES AND EXCHANGE COMMISSION FORM 13F
ASSETS AS OF 09/30/04

NAME OF ISSUER	CLASS	CUSIP	MARKET VALUE (X\$1000)	SHRS OR PRN AMT	SH/ PUT/ PRN CALL	SOLE (A)	SHR (B)	INVTMNT DSC OTHR (C)
MARSHALL & ILSLEY CRP	COM	571834100	61,641	1,529,554	SH			X
MARRIOTT INTL INC NEW	CL A	571903202	2,169	41,750	SH	X		
MARRIOTT INTL INC NEW	CL A	571903202	10	185	SH			X
MARTIN MARIETTA MATLS	COM	573284106	5,471	120,842	SH	X		
MASCO CORP	COM	574599106	859	24,882	SH	X		
MASCO CORP	COM	574599106	13	390	SH			X
MATRIA HEALTHCARE INC	COM NEW	576817209	1,461	51,610	SH	X		
MAXIM INTEGRATED PRDS	COM	57772K101	278	6,581	SH	X		
MAXIM INTEGRATED PRDS	COM	57772K101	9	221	SH			X
MAY DEPT STORES CO	COM	577778103	2,282	89,042	SH	X		
MAY DEPT STORES CO	COM	577778103	32	1,240	SH			X
MAYTAG CORP	COM	578592107	919	50,026	SH	X		
MAYTAG CORP	COM	578592107	13	702	SH			X
MCAFEE INC	COM	579064106	2,743	136,452	SH	X		

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MCCORMICK & CO INC	COM NON VTG	579780206	367	10,685	SH	X	
MCCORMICK & CO INC	COM NON VTG	579780206	13	392	SH		X
MCDONALDS CORP	COM	580135101	4,477	159,729	SH	X	
MCDONALDS CORP	COM	580135101	1,381	49,275	SH		X
MCGRAW HILL COS INC	COM	580645109	4,448	55,814	SH	X	
MCGRAW HILL COS INC	COM	580645109	337	4,228	SH		X
MCKESSON CORP	COM	58155Q103	6,374	248,493	SH	X	
MCKESSON CORP	COM	58155Q103	42	1,650	SH		X
MEADWESTVACO CORP	COM	583334107	1,826	57,231	SH	X	
MEADWESTVACO CORP	COM	583334107	733	22,983	SH		X
MEDCO HEALTH SLTIONS	COM	58405U102	344	11,143	SH	X	
MEDCO HEALTH SLTIONS	COM	58405U102	88	2,833	SH		X
MEDICIS PHARMACEUTICL	CL A NEW	584690309	3,583	91,780	SH	X	
MEDIMMUNE INC	COM	584699102	3,803	160,474	SH	X	
MEDIMMUNE INC	COM	584699102	405	17,075	SH		X
MEDTRONIC INC	COM	585055106	5,401	104,071	SH	X	
MEDTRONIC INC	COM	585055106	688	13,260	SH		X
MELLON FINL CORP	COM	58551A108	151	5,461	SH	X	
MELLON FINL CORP	COM	58551A108	81	2,912	SH		X
MERCK & CO INC	COM	589331107	34,999	1,060,574	SH	X	
MERCK & CO INC	COM	589331107	4,309	130,569	SH		X
MEREDITH CORP	COM	589433101	280	5,441	SH	X	
MEREDITH CORP	COM	589433101	12	238	SH		X
MERRILL LYNCH & CO	COM	590188108	2,954	59,422	SH	X	
MERRILL LYNCH & CO	COM	590188108	57	1,156	SH		X
METLIFE INC	COM	59156R108	2,236	57,845	SH	X	
METLIFE INC	COM	59156R108	62	1,617	SH		X
MICHAELS STORES INC	COM	594087108	4,213	71,153	SH	X	
MICHAELS STORES INC	COM	594087108	29	490	SH		X
MICROSOFT CORP	COM	594918104	50,421	1,823,528	SH	X	
MICROSOFT CORP	COM	594918104	6,184	223,648	SH		X
MIDCAP SPDR TR	UNT SR 1	595635103	6,414	59,199	SH	X	
MIDCAP SPDR TR	UNT SR 1	595635103	1,134	10,464	SH		X
MODINE MFG CO	COM	607828100	20,694	687,270	SH	X	
MODINE MFG CO	COM	607828100	557	18,500	SH		X
MOLEX INC	COM	608554101	227	7,604	SH	X	
MOLEX INC	COM	608554101	6	213	SH		X
MONSANTO CO NEW	COM	61166W101	220	6,050	SH	X	
MONSANTO CO NEW	COM	61166W101	4	116	SH		X
MOODYS CORP	COM	615369105	533	7,276	SH	X	
MOODYS CORP	COM	615369105	61	827	SH		X
MORGAN STANLEY	COM NEW	617446448	10,958	222,271	SH	X	
MORGAN STANLEY	COM NEW	617446448	880	17,842	SH		X
MOTOROLA INC	COM	620076109	4,625	256,398	SH	X	
MOTOROLA INC	COM	620076109	291	16,144	SH		X
MURPHY OIL CORP	COM	626717102	3,399	39,178	SH	X	
MURPHY OIL CORP	COM	626717102	89	1,020	SH		X
MYLAN LABS INC	COM	628530107	187	10,373	SH	X	
NASDAQ 100 TR	UNT SR 1	631100104	977	27,794	SH	X	
NASDAQ 100 TR	UNT SR 1	631100104	119	3,380	SH		X
NATIONAL CITY CORP	COM	635405103	5,982	154,883	SH	X	
NATIONAL CITY CORP	COM	635405103	48	1,242	SH		X
NATIONAL INSTRS CORP	COM	636518102	3,830	126,537	SH	X	
NATIONAL SEMICONDUCTR	COM	637640103	2,657	171,546	SH	X	
NATIONAL SEMICONDUCTR	COM	637640103	73	4,720	SH		X
NETWORK APPLIANCE INC	COM	64120L104	206	8,942	SH	X	
NETWORK APPLIANCE INC	COM	64120L104	9	378	SH		X
NEW YORK TIMES CO	CL A	650111107	1,697	43,406	SH	X	
NEWELL RUBBERMAID INC	COM	651229106	823	41,060	SH	X	
NEWELL RUBBERMAID INC	COM	651229106	136	6,799	SH		X
NEWMONT MINING CORP	COM	651639106	388	8,511	SH	X	
NEWMONT MINING CORP	COM	651639106	96	2,103	SH		X

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NEXTEL COMMUNICATIONS	CL A	65332V103	847	35,513	SH	X	
NEXTEL COMMUNICATIONS	CL A	65332V103	24	1,025	SH		X
NICOR INC	COM	654086107	855	23,285	SH	X	
NICOR INC	COM	654086107	47	1,274	SH		X
NIKE INC	CL B	654106103	5,008	63,552	SH	X	
NIKE INC	CL B	654106103	192	2,431	SH		X
NISOURCE INC	COM	65473P105	235	11,185	SH	X	
NISOURCE INC	COM	65473P105	25	1,172	SH		X
NOKIA CORP	SPN ADR	654902204	329	23,990	SH	X	
NOKIA CORP	SPN ADR	654902204	62	4,545	SH		X
NOBLE ENERGY INC	COM	655044105	9,515	163,374	SH	X	
NOBLE ENERGY INC	COM	655044105	17	300	SH		X
NORDSON CORP	COM	655663102	1,786	52,038	SH	X	
NORDSTROM INC	COM	655664100	338	8,842	SH	X	
NORDSTROM INC	COM	655664100	10	265	SH		X
NORFOLK SOUTHERN CORP	COM	655844108	3,149	105,881	SH	X	
NORFOLK SOUTHERN CORP	COM	655844108	24	798	SH		X
NORTEL NETWORKS CORP	COM	656568102	253	74,350	SH	X	

MARSHALL & ILSLEY TRUST CO N.A.
SECURITIES AND EXCHANGE COMMISSION FORM 13F
ASSETS AS OF 09/30/04

NAME OF ISSUER	TITLE OF CLASS	CUSIP	MARKET VALUE (X\$1000)	SHRS OR PRN AMT	SH/ PUT/ SOLE PRN CALL	SOLE (A)	SHR OTHER (B)	INVTMNT DSC (C)
NORTH FORK BANCORP	COM	659424105	3,627	81,607	SH	X		
NORTH FORK BANCORP	COM	659424105	173	3,897	SH			X
NORTHERN TR CORP	COM	665859104	4,775	117,027	SH	X		
NORTHERN TR CORP	COM	665859104	294	7,203	SH			X
NORTHROP GRUMMAN CORP	COM	666807102	9,342	175,166	SH	X		
NORTHROP GRUMMAN CORP	COM	666807102	324	6,072	SH			X
NUCOR CORP	COM	670346105	10,420	114,047	SH	X		
NUCOR CORP	COM	670346105	7	77	SH			X
NVIDIA CORP	COM	67066G104	200	13,757	SH	X		
NVIDIA CORP	COM	67066G104	4	291	SH			X
OSI PHARMACEUTICALS	COM	671040103	2,170	35,310	SH	X		
OCCIDENTAL PETE CORP	COM	674599105	1,750	31,281	SH	X		
OCCIDENTAL PETE CORP	COM	674599105	293	5,240	SH			X
OCEANEERING INTL INC	COM	675232102	2,793	75,823	SH	X		
OLD NATL BANCORP IND	COM	680033107	360	14,483	SH	X		
OLD REP INTL CORP	COM	680223104	96	3,845	SH	X		
OLD REP INTL CORP	COM	680223104	7,657	305,903	SH			X
OMNICARE INC	COM	681904108	2,436	85,897	SH	X		
OMNICOM GROUP INC	COM	681919106	215	2,946	SH	X		
OMNICOM GROUP INC	COM	681919106	7	89	SH			X
OPEN SOLUTIONS INC	COM	68371P102	2,576	103,150	SH	X		
ORACLE CORP	COM	68389X105	10,624	941,855	SH	X		
ORACLE CORP	COM	68389X105	1,044	92,536	SH			X
OSHKOSH TRUCK CORP	COM	688239201	5,711	100,083	SH	X		
OSHKOSH TRUCK CORP	COM	688239201	1,312	23,000	SH			X
OUTBACK STEAKHOUSE	COM	689899102	1,222	29,435	SH	X		
OUTBACK STEAKHOUSE	COM	689899102	153	3,695	SH			X
PG&E CORP	COM	69331C108	309	10,167	SH	X		
PG&E CORP	COM	69331C108	2	78	SH			X
PNC FINL SVCS GROUP	COM	693475105	4,819	89,069	SH	X		
PNC FINL SVCS GROUP	COM	693475105	103	1,907	SH			X

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POSCO	SPN ADR	693483109	242	6,400	SH	X	
POSCO	SPN ADR	693483109	5	129	SH		X
PPG INDS INC	COM	693506107	3,975	64,862	SH	X	
PPG INDS INC	COM	693506107	307	5,003	SH		X
PPL CORP	COM	69351T106	2,819	59,759	SH	X	
PPL CORP	COM	69351T106	32	682	SH		X
PACCAR INC	COM	693718108	233	3,377	SH	X	
PACCAR INC	COM	693718108	4	55	SH		X
PACIFIC SUNWEAR CALIF	COM	694873100	2,198	104,421	SH	X	
PACKAGING CORP AMER	COM	695156109	7,345	300,168	SH	X	
PANERA BREAD CO	CL A	69840W108	5,934	158,060	SH	X	
PANERA BREAD CO	CL A	69840W108	26	700	SH		X
PARKER HANNIFIN CORP	COM	701094104	19,177	325,803	SH	X	
PARKER HANNIFIN CORP	COM	701094104	583	9,897	SH		X
PATTERSON COMPANIES	COM	703395103	288	3,758	SH	X	
PATTERSON COMPANIES	COM	703395103	31	400	SH		X
PAYCHEX INC	COM	704326107	456	15,133	SH	X	
PAYCHEX INC	COM	704326107	8	263	SH		X
PENNEY J C INC	COM	708160106	8,752	248,070	SH	X	
PENNEY J C INC	COM	708160106	530	15,036	SH		X
PENTAIR INC	COM	709631105	3,550	101,684	SH	X	
PENTAIR INC	COM	709631105	52	1,502	SH		X
PEPSICO INC	COM	713448108	15,963	328,111	SH	X	
PEPSICO INC	COM	713448108	2,941	60,456	SH		X
PERKINELMER INC	COM	714046109	932	54,118	SH	X	
PERKINELMER INC	COM	714046109	9	543	SH		X
PETCO ANIMAL SUPPLIES	COM NEW	716016209	2,022	61,920	SH	X	
PETSMART INC	COM	716768106	2,890	101,788	SH	X	
PETSMART INC	COM	716768106	8	270	SH		X
PFIZER INC	COM	717081103	44,423	1,451,747	SH	X	
PFIZER INC	COM	717081103	6,649	217,291	SH		X
PHASE FORWARD INC	COM	71721R406	2,043	247,310	SH	X	
PIER 1 IMPORTS INC	COM	720279108	6,573	363,551	SH	X	
PINNACLE WEST CAP CRP	COM	723484101	1,138	27,414	SH	X	
PINNACLE WEST CAP CRP	COM	723484101	35	837	SH		X
PITNEY BOWES INC	COM	724479100	245	5,546	SH	X	
PITNEY BOWES INC	COM	724479100	25	559	SH		X
PLUM CREEK TIMBER CO	COM	729251108	3,912	111,673	SH	X	
PLUM CREEK TIMBER CO	COM	729251108	138	3,937	SH		X
POLYCOM INC	COM	73172K104	2,779	140,199	SH	X	
POLYCOM INC	COM	73172K104	9	460	SH		X
POWELL INDS INC	COM	739128106	475	28,200	SH		X
PRAXAIR INC	COM	74005P104	2,393	56,000	SH	X	
PRAXAIR INC	COM	74005P104	7	162	SH		X
PRECISION CASTPARTS	COM	740189105	3,665	61,039	SH	X	
PRINCIPAL FNCL GRP	COM	74251V102	442	12,300	SH	X	
PRINCIPAL FNCL GRP	COM	74251V102	4	124	SH		X
PROCTER & GAMBLE CO	COM	742718109	21,324	394,008	SH	X	
PROCTER & GAMBLE CO	COM	742718109	3,389	62,623	SH		X
PROGRESS ENERGY INC	COM	743263105	3,818	90,182	SH	X	
PROGRESS ENERGY INC	COM	743263105	68	1,597	SH		X
PROGRESSIVE CORP OHIO	COM	743315103	643	7,591	SH	X	
PROGRESSIVE CORP OHIO	COM	743315103	32	378	SH		X
PROLOGIS	SH BEN INT	743410102	2,278	64,648	SH	X	
PROQUEST COMPANY	COM	74346P102	7,771	302,368	SH	X	
PROTECTIVE LIFE CORP	COM	743674103	9,987	254,058	SH	X	
PROVIDIAN FINL CORP	COM	74406A102	467	30,048	SH	X	
PROVIDIAN FINL CORP	COM	74406A102	12	770	SH		X
PRUDENTIAL FINL INC	COM	744320102	2,451	52,099	SH	X	
PRUDENTIAL FINL INC	COM	744320102	14	295	SH		X
PUBLIC SVC ENTRPRISE	COM	744573106	3,229	75,804	SH	X	
PUBLIC SVC ENTRPRISE	COM	744573106	50	1,163	SH		X

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PULTE HOMES INC COM 745867101 296 4,827 SH X

MARSHALL & ILSLEY TRUST CO N.A.
SECURITIES AND EXCHANGE COMMISSION FORM 13F
ASSETS AS OF 09/30/04

NAME OF ISSUER	TITLE OF CLASS	CUSIP	MARKET VALUE (X\$1000)	SHRS OR PRN AMT	SH/ PUT/ SOLE PRN CALL	INVSTMNT SHR (A)	DSC OTHR (B)	(C)
PULTE HOMES INC	COM	745867101	9	147 SH				X
QSOUND LABS INC	COM NEW	74728C307	1,488	320,000 SH		X		
QUALCOMM INC	COM	747525103	3,103	79,489 SH		X		
QUALCOMM INC	COM	747525103	495	12,678 SH				X
QUEST DIAGNOSTICS INC	COM	74834L100	373	4,229 SH		X		
QUEST DIAGNOSTICS INC	COM	74834L100	36	408 SH				X
RSA SEC INC	COM	749719100	3,111	161,173 SH		X		
RADIOSHACK CORP	COM	750438103	1,817	63,452 SH		X		
RADIOSHACK CORP	COM	750438103	28	975 SH				X
RAYTHEON CO	COM NEW	755111507	290	7,646 SH		X		
RAYTHEON CO	COM NEW	755111507	122	3,205 SH				X
RED HAT INC	COM	756577102	1,790	146,280 SH		X		
RED HAT INC	COM	756577102	2	171 SH				X
REGAL BELOIT CORP	COM	758750103	14,911	616,406 SH		X		
REGAL BELOIT CORP	COM	758750103	212	8,760 SH				X
REGIONS FINANCIAL CRP	COM	7591EP100	3,080	93,162 SH		X		
REGIONS FINANCIAL CRP	COM	7591EP100	34	1,028 SH				X
REPUBLIC SVCS INC	COM	760759100	8,924	299,857 SH		X		
REPUBLIC SVCS INC	COM	760759100	5	180 SH				X
REYNOLDS AMERICAN INC	COM	761713106	2,090	30,723 SH		X		
REYNOLDS AMERICAN INC	COM	761713106	8	113 SH				X
ROCKWELL AUTOMATION	COM	773903109	1,502	38,802 SH		X		
ROCKWELL AUTOMATION	COM	773903109	182	4,692 SH				X
ROCKWELL COLLINS INC	COM	774341101	1,315	35,400 SH		X		
ROCKWELL COLLINS INC	COM	774341101	91	2,445 SH				X
ROYAL DUTCH PETE CO	NY REG EUR .56	780257804	4,738	91,824 SH		X		
ROYAL DUTCH PETE CO	NY REG EUR .56	780257804	1,657	32,113 SH				X
SBC COMMUNICATIONS	COM	78387G103	38,391	1,479,414 SH		X		
SBC COMMUNICATIONS	COM	78387G103	5,089	196,096 SH				X
SFBC INTL INC	COM	784121105	2,308	87,720 SH		X		
SLM CORP	COM	78442P106	363	8,150 SH		X		
SLM CORP	COM	78442P106	12	261 SH				X
SPDR TR	UNT SR 1	78462F103	10,013	89,597 SH		X		
SPDR TR	UNT SR 1	78462F103	1,607	14,377 SH				X
SAFECO CORP	COM	786429100	8,763	191,954 SH		X		
SAFECO CORP	COM	786429100	10	216 SH				X
ST JOE CO	COM	790148100	382	8,000 SH		X		
ST JUDE MED INC	COM	790849103	4,160	55,266 SH		X		
ST JUDE MED INC	COM	790849103	450	5,980 SH				X
ST PAUL TRAVELERS INC	COM	792860108	723	21,870 SH		X		
ST PAUL TRAVELERS INC	COM	792860108	12	364 SH				X
SAKS INC	COM	79377W108	157	13,069 SH		X		
SANTARUS INC	COM	802817304	1,731	190,850 SH		X		
SAP AKTIENGESELLSCHFT	SPN ADR	803054204	235	6,030 SH		X		
SAPIENT CORP	COM	803062108	2,363	309,710 SH		X		
SARA LEE CORP	COM	803111103	10,655	466,083 SH		X		

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SARA LEE CORP	COM	803111103	665	29,087	SH				X
SASOL LTD	SPN ADR	803866300	2,644	141,230	SH		X		
SCHERING PLOUGH CORP	COM	806605101	1,349	70,794	SH		X		
SCHERING PLOUGH CORP	COM	806605101	503	26,393	SH				X
SCHLOTZSKYS INC	COM	806832101	10	24,000	SH				X
SCHLUMBERGER LTD	COM	806857108	3,364	49,979	SH		X		
SCHLUMBERGER LTD	COM	806857108	731	10,860	SH				X
SCIENTIFIC ATLANTA	COM	808655104	2,987	115,241	SH		X		
SCIENTIFIC ATLANTA	COM	808655104	5	193	SH				X
SCOTTISH PWR PLC	SPN ADR FNL	81013T705	193	6,259	SH		X		
SCOTTISH PWR PLC	SPN ADR FNL	81013T705	14	449	SH				X
SEARS ROEBUCK & CO	COM	812387108	1,331	33,401	SH		X		
SEARS ROEBUCK & CO	COM	812387108	49	1,220	SH				X
SELECT SECTOR SPDR TR	SBI INT-FNL	81369Y605	8,219	288,790	SH		X		
SELECT SECTOR SPDR TR	SBI INT-TECH	81369Y803	259	13,570	SH		X		
SELECT SECTOR SPDR TR	SBI INT-UTLS	81369Y886	165	6,580	SH		X		
SELECT SECTOR SPDR TR	SBI INT-UTLS	81369Y886	37	1,461	SH				X
SELECT MEDICAL CORP	COM	816196109	4,512	335,950	SH		X		
SEMPRA ENERGY	COM	816851109	2,694	74,451	SH		X		
SEMPRA ENERGY	COM	816851109	29	803	SH				X
SENSIENT TECHNOLOGIES	COM	81725T100	302	13,966	SH		X		
SENSIENT TECHNOLOGIES	COM	81725T100	34	1,550	SH				X
SHERWIN WILLIAMS CO	COM	824348106	508	11,552	SH		X		
SHERWIN WILLIAMS CO	COM	824348106	2	48	SH				X
SIEMENS A G	SPN ADR	826197501	133	1,800	SH		X		
SIEMENS A G	SPN ADR	826197501	192	2,600	SH				X
SIGMA ALDRICH CORP	COM	826552101	1,028	17,716	SH		X		
SIGMA ALDRICH CORP	COM	826552101	30	519	SH				X
SIMON PPTY GROUP INC	COM	828806109	3,572	66,604	SH		X		
SIMON PPTY GROUP INC	COM	828806109	43	810	SH				X
SIRIUS SATELLITE RDO	COM	82966U103	39	12,100	SH		X		
SKYWORKS SOLUTIONS	COM	83088M102	135	14,261	SH		X		
SMITH A O	COM	831865209	104	4,283	SH		X		
SMITH A O	COM	831865209	195	8,000	SH				X
SMITHFIELD FOODS INC	COM	832248108	6,712	268,497	SH		X		
SMUCKER J M CO	COM NEW	832696405	43	959	SH		X		
SMUCKER J M CO	COM NEW	832696405	291	6,544	SH				X
SMURFIT-STONE CNTNR	COM	832727101	7,819	403,675	SH		X		
SNAP ON INC	COM	833034101	6,580	238,736	SH		X		
SNAP ON INC	COM	833034101	235	8,525	SH				X
SOUTHERN CO	COM	842587107	7,378	246,092	SH		X		
SOUTHERN CO	COM	842587107	444	14,820	SH				X
SOUTHTRUST CORP	COM	844730101	500	11,992	SH		X		
SOUTHTRUST CORP	COM	844730101	61	1,473	SH				X
SOUTHWEST BANCORP	COM	84476R109	2,083	103,434	SH		X		
SOUTHWESTERN ENERGY	COM	845467109	359	8,560	SH		X		

MARSHALL & ILSLEY TRUST CO N.A.
SECURITIES AND EXCHANGE COMMISSION FORM 13F
ASSETS AS OF 09/30/04

NAME OF ISSUER	TITLE OF CLASS	CUSIP	MARKET VALUE (X\$1000)	SHRS OR PRN AMT	SH/ PUT/ PRN CALL	SOLE (A)	SHR (B)	OTHER (C)
SOVEREIGN BANCORP	COM	845905108	654	29,984	SH		X	
SPRINT CORP	COM FON	852061100	9,106	452,370	SH		X	
SPRINT CORP	COM FON	852061100	193	9,610	SH			X

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STAKTEK HLDGS INC	COM	85256P106	319	81,920	SH	X	
STAPLES INC	COM	855030102	638	21,406	SH	X	
STAPLES INC	COM	855030102	11	383	SH		X
STARBUCKS CORP	COM	855244109	461	10,145	SH	X	
STARBUCKS CORP	COM	855244109	30	663	SH		X
STARWOOD HOTELS&RES	PRD CTF	85590A203	1,920	41,361	SH	X	
STARWOOD HOTELS&RES	PRD CTF	85590A203	5	97	SH		X
STATE STR CORP	COM	857477103	1,625	38,049	SH	X	
STATE STR CORP	COM	857477103	3	78	SH		X
STORA ENSO CORP	SPN ADR REP R	86210M106	996	73,631	SH	X	
STRYKER CORP	COM	863667101	640	13,305	SH	X	
STRYKER CORP	COM	863667101	585	12,167	SH		X
SUN MICROSYSTEMS INC	COM	866810104	66	16,302	SH	X	
SUN MICROSYSTEMS INC	COM	866810104	40	9,857	SH		X
SUNGARD DATA SYS INC	COM	867363103	10,621	446,805	SH	X	
SUNGARD DATA SYS INC	COM	867363103	2	75	SH		X
SUNOCO INC	COM	86764P109	404	5,455	SH	X	
SUNOCO INC	COM	86764P109	18	238	SH		X
SUNTRUST BKS INC	COM	867914103	6,116	86,867	SH	X	
SUNTRUST BKS INC	COM	867914103	138	1,966	SH		X
SUPERVALU INC	COM	868536103	5,161	187,344	SH	X	
SUPERVALU INC	COM	868536103	15	545	SH		X
SURMODICS INC	COM	868873100	325	13,680	SH	X	
SWIFT TRANSN CO	COM	870756103	7,596	451,610	SH	X	
SYMANTEC CORP	COM	871503108	580	10,575	SH	X	
SYMANTEC CORP	COM	871503108	36	655	SH		X
SYNOVUS FINL CORP	COM	87161C105	1,070	40,935	SH	X	
SYNOVUS FINL CORP	COM	87161C105	29	1,127	SH		X
SYSCO CORP	COM	871829107	2,122	70,916	SH	X	
SYSCO CORP	COM	871829107	104	3,478	SH		X
TECO ENERGY INC	COM	872375100	5,048	373,113	SH	X	
TECO ENERGY INC	COM	872375100	11	800	SH		X
TJX COS INC NEW	COM	872540109	382	17,334	SH	X	
TJX COS INC NEW	COM	872540109	28	1,267	SH		X
TAIWAN SEMICNDCTR MFG	SPN ADR	874039100	62	8,732	SH	X	
TAIWAN SEMICNDCTR MFG	SPN ADR	874039100	19	2,700	SH		X
TARGET CORP	COM	87612E106	5,278	116,650	SH	X	
TARGET CORP	COM	87612E106	1,590	35,130	SH		X
TECUMSEH PRODS CO	CL A	878895200	231	5,506	SH		X
TEKTRONIX INC	COM	879131100	200	6,021	SH	X	
TEKTRONIX INC	COM	879131100	6	174	SH		X
TEMPUR PEDIC INTL INC	COM	88023U101	8,015	534,710	SH	X	
TEVA PHARMA CL INDS	ADR	881624209	291	11,200	SH	X	
TEXAS INSTRS INC	COM	882508104	2,973	139,726	SH	X	
TEXAS INSTRS INC	COM	882508104	516	24,261	SH		X
TEXTRON INC	COM	883203101	3,797	59,076	SH	X	
TEXTRON INC	COM	883203101	2	34	SH		X
THERMO ELECTRON CORP	COM	883556102	202	7,466	SH	X	
THERMO ELECTRON CORP	COM	883556102	8	305	SH		X
THIRD WAVE TECH	COM	88428W108	10	1,500	SH	X	
THIRD WAVE TECH	COM	88428W108	251	36,500	SH		X
3M CO	COM	88579Y101	26,206	327,702	SH	X	
3M CO	COM	88579Y101	4,790	59,895	SH		X
TIBCO SOFTWARE INC	COM	88632Q103	3,251	382,060	SH	X	
TIME WARNER INC	COM	887317105	9,755	604,389	SH	X	
TIME WARNER INC	COM	887317105	691	42,789	SH		X
TORCHMARK CORP	COM	891027104	396	7,438	SH	X	
TORCHMARK CORP	COM	891027104	11	202	SH		X
TRAMMELL CROW CO	COM	89288R106	2,107	134,010	SH	X	
TRANSCANADA CORP	COM	89353D107	251	11,500	SH	X	
TRIBUNE CO NEW	COM	896047107	1,459	35,455	SH	X	
TRIBUNE CO NEW	COM	896047107	324	7,868	SH		X

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TUESDAY MORNING CORP	COM NEW	899035505	1,914	61,910	SH		X	
TUPPERWARE CORP	COM	899896104	278	16,384	SH		X	
TUPPERWARE CORP	COM	899896104	562	33,073	SH			X
TYCO INTL LTD NEW	COM	902124106	4,529	147,712	SH		X	
TYCO INTL LTD NEW	COM	902124106	625	20,393	SH			X
UST INC	COM	902911106	2,961	73,554	SH		X	
UST INC	COM	902911106	92	2,286	SH			X
US BANCORP DEL	COM NEW	902973304	26,825	928,196	SH		X	
US BANCORP DEL	COM NEW	902973304	2,915	100,856	SH			X
UNION PAC CORP	COM	907818108	664	11,330	SH		X	
UNION PAC CORP	COM	907818108	173	2,950	SH			X
UNITED NAT FOODS INC	COM	911163103	6,252	235,041	SH		X	
UNITED PARCEL SVC	CL B	911312106	10,742	141,496	SH		X	
UNITED PARCEL SVC	CL B	911312106	254	3,347	SH			X
UNITED TECHNOLOGIES	COM	913017109	4,923	52,717	SH		X	
UNITED TECHNOLOGIES	COM	913017109	1,286	13,777	SH			X
UNITEDHEALTH GROUP	COM	91324P102	1,586	21,513	SH		X	
UNITEDHEALTH GROUP	COM	91324P102	85	1,146	SH			X
UNIVISION COMM	CL A	914906102	198	6,272	SH		X	
UNIVISION COMM	CL A	914906102	5	161	SH			X
UNOCAL CORP	COM	915289102	1,863	43,316	SH		X	
UNOCAL CORP	COM	915289102	50	1,169	SH			X
UROLOGIX INC	COM	917273104	66	10,500	SH		X	
V F CORP	COM	918204108	991	20,048	SH		X	
V F CORP	COM	918204108	3	63	SH			X
VALERO ENERGY CORP	COM	91913Y100	283	3,525	SH		X	
VALERO ENERGY CORP	COM	91913Y100	84	1,052	SH			X
VARIAN MED SYS INC	COM	92220P105	3,042	87,998	SH		X	
VERIZON COMM	COM	92343V104	46,079	1,170,100	SH		X	

MARSHALL & ILSLEY TRUST CO N.A.
SECURITIES AND EXCHANGE COMMISSION FORM 13F
ASSETS AS OF 09/30/04

NAME OF ISSUER	TITLE OF CLASS	CUSIP	MARKET VALUE (X\$1000)	SHRS OR PRN AMT	SH/ PUT/ SOLE PRN CALL	INVSTMNT (A)	DSC (B)	OTHER (C)
VERIZON COMM	COM	92343V104	3,148	79,948	SH			X
VIACOM INC	CL B	925524308	3,470	103,400	SH		X	
VIACOM INC	CL B	925524308	228	6,805	SH			X
VODAFONE GROUP PLC	SPN ADR	92857W100	430	17,845	SH		X	
VODAFONE GROUP PLC	SPN ADR	92857W100	92	3,825	SH			X
WPS RESOURCES CORP	COM	92931B106	1,706	37,916	SH		X	
WPS RESOURCES CORP	COM	92931B106	325	7,230	SH			X
WACHOVIA CORP 2ND NEW	COM	929903102	21,022	447,751	SH		X	
WACHOVIA CORP 2ND NEW	COM	929903102	312	6,636	SH			X
WAL MART STORES INC	COM	931142103	24,154	454,014	SH		X	
WAL MART STORES INC	COM	931142103	3,796	71,354	SH			X
WALGREEN CO	COM	931422109	18,007	502,560	SH		X	
WALGREEN CO	COM	931422109	5,442	151,883	SH			X
WASHINGTON MUT INC	COM	939322103	9,004	230,392	SH		X	
WASHINGTON MUT INC	COM	939322103	161	4,107	SH			X
WATERS CORP	COM	941848103	386	8,749	SH		X	
WATERS CORP	COM	941848103	19	438	SH			X
WATSON WYATT & CO	CL A	942712100	9,319	354,348	SH		X	
WAUSAU-MOSINEE PAPER	COM	943315101	3,446	206,952	SH		X	
WAUSAU-MOSINEE PAPER	COM	943315101	4,625	277,796	SH			X

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WELLPOINT HLTH NTRK	COM	94973H108	2,473	23,529	SH	X		
WELLPOINT HLTH NTRK	COM	94973H108	12	112	SH			X
WELLS FARGO & CO NEW	COM	949746101	49,266	826,187	SH	X		
WELLS FARGO & CO NEW	COM	949746101	3,081	51,668	SH			X
WESCO INTL INC	COM	95082P105	3,376	139,220	SH	X		
WEYERHAEUSER CO	COM	962166104	13,369	201,103	SH	X		
WEYERHAEUSER CO	COM	962166104	1,913	28,781	SH			X
WHIRLPOOL CORP	COM	963320106	286	4,763	SH	X		
WHIRLPOOL CORP	COM	963320106	568	9,460	SH			X
WHITEHALL JEWELLERS	COM	965063100	161	20,000	SH	X		
WILLIAMS COS INC	COM	969457100	205	16,918	SH	X		
WILLIAMS COS INC	COM	969457100	70	5,765	SH			X
WILLIAMS SONOMA	COM	969904101	3,633	96,745	SH	X		
WISCONSIN ENERGY	COM	976657106	3,651	114,466	SH	X		
WISCONSIN ENERGY	COM	976657106	1,188	37,243	SH			X
WRIGLEY WM JR CO	COM	982526105	455	7,189	SH	X		
WRIGLEY WM JR CO	COM	982526105	1,736	27,424	SH			X
WYETH	COM	983024100	8,298	221,880	SH	X		
WYETH	COM	983024100	2,091	55,921	SH			X
XTO ENERGY INC	COM	98385X106	50	1,546	SH	X		
XTO ENERGY INC	COM	98385X106	452	13,922	SH			X
XCEL ENERGY INC	COM	98389B100	10,984	634,198	SH	X		
XCEL ENERGY INC	COM	98389B100	112	6,465	SH			X
XEROX CORP	COM	984121103	7,360	522,733	SH	X		
XEROX CORP	COM	984121103	29	2,027	SH			X
YAHOO INC	COM	984332106	1,176	34,676	SH	X		
YAHOO INC	COM	984332106	71	2,101	SH			X
YANKEE CANDLE INC	COM	984757104	2,238	77,270	SH	X		
YUM BRANDS INC	COM	988498101	269	6,619	SH	X		
YUM BRANDS INC	COM	988498101	93	2,284	SH			X
ZEBRA TECHNOLOGIES	CL A	989207105	75	1,229	SH	X		
ZEBRA TECHNOLOGIES	CL A	989207105	167	2,737	SH			X
ZIMMER HLDGS INC	COM	98956P102	9,702	122,749	SH	X		
ZIMMER HLDGS INC	COM	98956P102	970	12,270	SH			X
FINAL TOTALS			3,577,444	102,268,341				

M&I INVESTMENT MANAGEMENT CORP.
SECURITIES AND EXCHANGE COMMISSION FORM 13F
ASSETS AS OF 09/30/04

NAME OF ISSUER	CLASS	CUSIP	MARKET VALUE (X\$1000)	SHRS OR PRN AMT	SH/ PUT/ PRN CALL	SOLE (A)	INVSTMNT SHR (B)	DSC OTHR (C)
ALTRIA GROUP INC	COM	02209S103	300	6,370	SH	X		
AMERICAN EXPRESS CO	COM	025816109	201	3,900	SH	X		
AMERICAN INTL GROUP	COM	026874107	204	3,000	SH	X		
BOEING CO	COM	097023105	284	5,515	SH	X		
CHEVRONTEXACO CORP	COM	166764100	366	6,832	SH	X		
CITIGROUP INC	COM	172967101	410	9,298	SH	X		
COUNTRYWIDE FINANCIAL	COM	222372104	328	8,323	SH	X		
DYNEGY INC	COM	26816Q101	54	10,805	SH	X		
EXXON MOBIL CORP	COM	30231G102	348	7,200	SH	X		
FEDERAL HOME LN MTG	COM	313400301	235	3,600	SH	X		
GENERAL ELEC CO	COM	369604103	462	13,750	SH	X		
GILLETTE CO	COM	375766102	250	6,000	SH	X		

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INTEL CORP	COM	458140100	201	10,000 SH	X
JOHNSON & JOHNSON	COM	478160104	276	4,908 SH	X
KOHL'S CORP	COM	500255104	282	5,872 SH	X
MERCK & CO INC	COM	589331107	267	8,081 SH	X
MICROSOFT CORP	COM	594918104	332	12,000 SH	X
ORACLE CORP	COM	68389X105	135	12,000 SH	X
PARKER HANNIFIN CORP	COM	701094104	204	3,460 SH	X
PFIZER INC	COM	717081103	280	9,160 SH	X
SBC COMMUNICATIONS	COM	78387G103	286	11,029 SH	X
VERIZON COMMUNICATIONS	COM	92343V104	275	6,988 SH	X
WELLS FARGO & CO NEW	COM	949746101	371	6,214 SH	X
			-----	-----	
FINAL TOTALS			6,351	174,305	
			=====	=====	