

Membership list

Russell 3000® Index

Company	Ticker	Company	Ticker
1-800 FLOWERS COM	FLWS	ADDUS HOMECARE CORP	ADUS
1ST SOURCE CORP	SRCE	ADIANT PLC	ADNT
21ST CENTURY FOX CL A	FOXA	ADOBE SYSTEMS INC	ADBE
21ST CENTURY FOX CL B	FOX	ADTALEM GLOBAL EDUCATION	ATGE
2U INC	TWOU	ADTRAN INC	ADTN
3D SYSTEMS CORP	DDD	ADURO BIOTECH INC	ADRO
3M CO	MMM	ADVANCE AUTO PARTS INC	AAP
8X8 INC NEW	EGHT	ADVANCED DISPOSAL SVCS	ADSW
A V HOMES INC	AVHI	ADVANCED DRAINAGE SYSTEM	WMS
A10 NETWORKS INC	ATEN	ADVANCED EMISSIONS SLTNS	ADES
AAC HOLDINGS INC	AAC	ADVANCED ENERGY INDS INC	AEIS
AAON INC	AAON	ADVANCED MICRO DEVICES	AMD
AAR CORP	AIR	ADVANSIX	ASIX
AARONS INC	AAN	ADVAXIS INC	ADXS
ABAXIS INC	ABAX	ADVISORY BOARD CO	ABCO
ABBOTT LABORATORIES	ABT	AECOM	ACM
ABBVIE INC	ABBV	AEGION CORP	AEGN
ABEONA THERAPEUTICS INC	ABEO	AERIE PHARMACEUTICALS	AERI
ABERCROMBIE & FITCH	ANF	AEROHIVE NETWORKS INC	HIVE
ABIOMED INC	ABMD	AEROJET ROCKETDYNE HLDGS	AJRD
ABM INDUSTRIES INC	ABM	AEROVIRONMENT INC	AVAV
ABRAXAS PETE CORP	AXAS	AES CORP	AES
ACACIA COMMUNICATIONS	ACIA	AETNA INC	AET
ACACIA RESEARCH CORP	ACTG	AFFILIATED MANAGERS GRP	AMG
ACADIA HEALTHCARE CO	ACHC	AFLAC INC	AFL
ACADIA PHARMACEUTICALS	ACAD	AG MORTGAGE INVT TR INC	MITT
ACADIA REALTY TRUST	AKR	AGCO CORP	AGCO
ACCELERATE DIAGNOSTICS	AXDX	AGENUS INC	AGEN
ACCELERON PHARMA INC	XLRN	AGILENT TECHNOLOGIES INC	A
ACCENTURE PLC IRELAND	ACN	AGILYSYS INC	AGYS
ACCESS NATL CORP	ANCX	AGIOS PHARMACEUTICALS	AGIO
ACCO BRANDS CORP	ACCO	AGNC INVESTMENT	AGNC
ACCURAY INC	ARRAY	AGREE REALTY CORP	ADC
ACETO CORP	ACET	AGROFRESH SOLUTIONS INC	AGFS
ACHAOGEN INC	AKAO	AIMMUNE THERAPEUTICS INC	AIMT
ACHILLION PHARM	ACHN	AIR LEASE CORP	AL
ACI WORLDWIDE INC	ACIW	AIR PRODS & CHEMS INC	APD
ACLARIS THERAPEUTICS	ACRS	AIR TRANSPORT SERVICES	ATSG
ACNB CORP	ACNB	AIRCATTLE LTD	AYR
ACORDA THERAPEUTICS INC	ACOR	AK STEEL HOLDING CORP	AKS
ACTIVISION BLIZZARD INC	ATVI	AKAMAI TECHNOLOGIES	AKAM
ACTUA CORPORATION	ACTA	AKEBIA THERAPEUTICS INC	AKBA
ACTUANT CORP	ATU	AKORN INC	AKRX
ACUITY BRANDS INC	AYI	AKOUSTIS TECHNOLOGIES	AKTS
ACUSHNET HOLDINGS CORP	GOLF	ALAMO GROUP INC	ALG
ACXIOM CORP	ACXM	ALARM.COM HOLDINGS INC	ALRM
ADAMAS PHARMACEUTICALS	ADMS	ALASKA AIR GROUP INC	ALK
ADAMS RESOURCES & ENERGY	AE	ALBANY INTERNATIONAL	AIN

Membership list

Russell 3000® Index

Company	Ticker
ALBANY MOLECULAR RESRCH	AMRI
ALBEMARLE CORP	ALB
ALCOA CORPORATION	AA
ALDER BIOPHARMACEUTICALS	ALDR
ALERE INC	ALR
ALEXANDER & BALDWIN INC	ALEX
ALEXANDERS INC	ALX
ALEXANDRIA REAL ESTATE	ARE
ALEXION PHARMACEUTICALS	ALXN
ALICO INC	ALCO
ALIGN TECHNOLOGY INC	ALGN
ALKERMES PLC	ALKS
ALLEGHANY CORP	Y
ALLEGHENY TECHNOLOGIES	ATI
ALLEGIANCE BANCSHARES	ABTX
ALLEGiant TRAVEL CO	ALGT
ALLEGION PLC	ALLE
ALLERGAN PLC	AGN
ALLETE INC	ALE
ALLIANCE DATA SYSTEMS	ADS
ALLIANT ENERGY CORP	LNT
ALLIED MOTION TECH	AMOT
ALLIED WRLD ASSUR COM	AWH
ALLISON TRANSMISSION	ALSN
ALLSCRIPTS HEALTHCARE	MDRX
ALLSTATE CORP	ALL
ALLY FINL INC	ALLY
ALMOST FAMILY INC	AFAM
ALNYLAM PHARMACEUTICALS	ALNY
ALON USA ENERGY INC	ALJ
ALPHA & OMEGA SEMICON	AOSL
ALPHABET INC CL A	GOOGL
ALPHABET INC CL C	GOOG
ALTERYX INC	AYX
ALTISOURCE PORTFOLIO	ASPS
ALTISOURCE RESIDENTIAL	RESI
ALTRA INDUSTRIAL MOTION	AIMC
ALTRIA GROUP INC	MO
AMAG PHARMACEUTICALS INC	AMAG
AMAZON COM INC	AMZN
AMBAC FINL GROUP INC	AMBC
AMBARELLA INC	AMBA
AMBER RD INC	AMBR
AMC ENTERTAINMENT	AMC
AMC NETWORKS INC	AMCX
AMDOCS LTD	DOX
AMEDISYS INC	AMED
AMER PUBLIC EDUCATION	APEI

Company	Ticker
AMEREN CORP	AEE
AMERESCO INC	AMRC
AMERICAN AIRLINES GROUP	AAL
AMERICAN ASSETS TRST INC	AAT
AMERICAN AXLE & MFG	AXL
AMERICAN CAMPUS COMMUN	ACC
AMERICAN EAGLE OUTFITTER	AEO
AMERICAN ELECTRIC POWER	AEP
AMERICAN EQUITY INVST	AEL
AMERICAN EXPRESS CO	AXP
AMERICAN FINANCIAL GROUP	AFG
AMERICAN HOMES 4 RENT	AMH
AMERICAN INTL GROUP	AIG
AMERICAN NATIONAL INS CO	ANAT
AMERICAN NATL BANKSHARES	AMNB
AMERICAN OUTDOOR BRANDS	AOBC
AMERICAN RAILCAR IND	ARII
AMERICAN RENAL ASSOC HLD	ARA
AMERICAN SOFTWARE INC	AMSWA
AMERICAN STATES WATER CO	AWR
AMERICAN TOWER CORP	AMT
AMERICAN VANGUARD CORP	AVD
AMERICAN WOODMARK CORP	AMWD
AMERICAN WTR WKS CO INC	AWK
AMERICAS CAR-MART INC	CRMT
AMERIPRISE FINANCIAL INC	AMP
AMERIS BANCORP	ABCB
AMERISAFE INC	AMSF
AMERISOURCEBERGEN CORP	ABC
AMES NATL CORP	ATLO
AMETEK INC	AME
AMGEN INC	AMGN
AMICUS THERAPEUTICS INC	FOLD
AMKOR TECHNOLOGY INC	AMKR
AMN HEALTHCARE SERVICES	AMN
AMPCO-PITTSBURGH CORP	AP
AMPHASTAR PHARMA INC	AMPH
AMPHENOL CORP	APH
AMPLIFY SNACK BRANDS INC	BETR
AMTRUST FINL SVCS	AFSI
ANADARKO PETROLEUM CORP	APC
ANALOG DEVICES INC	ADI
ANALOGIC CORP	ALOG
ANAPTYS BIO INC	ANAB
ANAVEX LIFE SCIENCES	AVXL
ANDERSONS INC	ANDE
ANGIES LIST INC	ANGI
ANGIODYNAMICS INC	ANGO

Membership list

Russell 3000® Index

Company	Ticker
AMERCO	UHAL
ANIKA THERAPEUTICS INC	ANIK
ANIXTER INTERNATIONAL	AXE
ANNALY CAPITAL MGMT INC	NLY
ANSYS INC	ANSS
ANTARES PHARMA INC	ATRS
ANTERO RESOURCES CO	AR
ANTHEM INC	ANTM
ANWORTH MORTGAGE ASSET	ANH
AON PLC	AON
APACHE CORP	APA
APARTMENT INVT & MGMT	AIV
APOGEE ENTERPRISES INC	APOG
APOLLO COMMERCIAL RE	ARI
APPFOLIO INC	APPF
APPLE HOSPITALITY REIT	APLE
APPLE INC	AAPL
APPLIED INDUSTRIAL TECH	AIT
APPLIED MATLS INC	AMAT
APPLIED OPTOELECTRONICS	AAOI
APPROACH RESOURCES INC	AREX
APTIO INC	APTI
APTARGROUP INC	ATR
AQUA AMERICA INC	WTR
AQUA METALS INC	AQMS
AQUAVENTURE HOLDINGS LTD	WAAS
ARAMARK	ARMK
ARATANA THERAPEUTICS INC	PETX
ARC DOCUMENT SOLUTIONS	ARC
ARCBEST CORPORATION	ARCB
ARCH CAP GROUP LTD	ACGL
ARCH COAL INC	ARCH
ARCHER DANIELS MIDLAND	ADM
ARCHROCK INC	AROC
ARCONIC INC	ARNC
ARDAGH GROUP SA	ARD
ARDELYX INC	ARDX
ARDMORE SHIPPING CORP	ASC
ARENA PHARMACEUTICALS	ARNA
ARES COMML REAL ESTATE	ACRE
ARGAN INC	AGX
ARGO GROUP INTL	AGII
ARISTA NETWORKS INC	ANET
ARLINGTON ASSET INVT	AI
ARMADA HOFFLER PPTYS INC	AHH
ARMOUR RESIDENTIAL REIT	ARR
ARMSTRONG FLOORING INC	AFI
ARMSTRONG WORLD INDS INC	AWI

Company	Ticker
ANI PHARMACEUTICALS INC	ANIP
ARROW ELECTRONICS INC	ARW
ARROW FINANCIAL CORP	AROW
ARTESIAN RESOURCES CORP	ARTNA
ARTISAN PARTNERS ASSET	APAM
ASB BANCORP INC NC	ASBB
ASBURY AUTOMOTIVE GROUP	ABG
ASCENA RETAIL GROUP INC	ASNA
ASCENT CAPITAL GROUP INC	ASCMA
ASHFORD HOSP PRIME	AHP
ASHFORD HOSPITALITY	AHT
ASHLAND GLOBAL HOLDINGS	ASH
ASPEN INSURANCE HOLDINGS	AHL
ASPEN TECHNOLOGY INC	AZPN
ASSEMBLY BIOSCIENCES INC	ASMB
ASSOCIATED BANC CORP	ASB
ASSOCIATED CAPITAL GROUP	AC
ASSURANT INC	AIZ
ASSURED GUARANTY LTD	AGO
ASTEC INDUSTRIES INC	ASTE
ASTERIAS BIOTHERAPEUTICS	AST
ASTORIA FINANCIAL CORP	AF
ASTRONICS CORP	ATRO
AT HOME GROUP INC	HOME
AT&T INC	T
ATARA BIOTHERAPEUTICS	ATRA
ATHENAHEALTH INC	ATHN
ATHENE HOLDING LTD	ATH
ATHERSYS INC	ATHX
ATKORE INTL GROUP INC	ATKR
ATLANTIC CAPITAL INC	ACBI
ATLANTIC PWR CORP	AT
ATLAS AIR WORLDWIDE HLDG	AAWW
ATLAS FINANCIAL HOLDINGS	AFH
ATLASSIAN CORP PLC	TEAM
ATMOS ENERGY CORP	ATO
ATN INTERNATIONAL INC	ATNI
ATRICURE INC	ATRC
ATRION CORP	ATRI
ATWOOD OCEANICS INC	ATW
AUDENTES THERAPEUTICS	BOLD
AUTODESK INC	ADSK
AUTOMATIC DATA PROCESS	ADP
AUTONATION INC	AN
AUTOZONE INC	AZO
AVALONBAY CMNTYS INC	AVB
AVANGRID INC	AGR
EVERY DENNISON CORP	AVY

Membership list

Russell 3000® Index

Company	Ticker
ARRAY BIOPHARMA INC	ARRY
ARRIS INTERNATIONAL PLC	ARRS
AVIS BUDGET GROUP INC	CAR
AVISTA CORP	AVA
AVNET INC	AVT
AVX CORP	AVX
AXALTA COATING SYSTEMS	AXTA
AXCELIS TECHNOLOGIES INC	ACLS
AXIS CAPITAL HOLDINGS	AXS
AXOGEN INC	AXGN
AXON ENTERPRISE INC	AAXN
AXOVANT SCIENCES LTD	AXON
AXT INC	AXTI
AZZ INC	AZZ
B & G FOODS INC	BGS
B. RILEY FINANCIAL INC	RILY
BABCOCK & WILCOX ENT	BW
BADGER METER INC	BMI
BAKER HUGHES INC	BHI
BALCHEM CORP	BCPC
BALDWIN & LYONS INC	BWINB
BALL CORP	BLL
BANC OF CALIFORNIA INC	BANC
BANCFIRST CORP	BANF
BANCO LATINOAMERICANO	BLX
BANCORP INC	TBBK
BANCORPSOUTH INC	BXS
BANK COMM HLDGS	BOCH
BANK MUTUAL CORP	BKMU
BANK OF AMERICA CORP	BAC
BANK OF HAWAII CORP	BOH
BANK OF MARIN BANCORP	BMRC
BANK OF NEW YORK MELLON	BK
BANK OF NT BUTTERFIELD	NTB
BANK OF THE OZARKS INC	OZRK
BANKFINANCIAL CORP	BFIN
BANKRATE INC	RATE
BANKUNITED INC	BKU
BANKWELL FINL GROUP INC	BWFG
BANNER CORP	BANR
BAR HBR BANKSHARES	BHB
BARNES & NOBLE EDUCATION	BNED
BARNES & NOBLE INC	BKS
BARNES GROUP INC	B
BARRACUDA NETWORKS INC	CUDA
BARRETT BUSINESS SERVICE	BBSI
BASIC ENERGY SERVICES	BAS
BASSETT FURNITURE INDS	BSET

Company	Ticker
AVEXIS INC	AVXS
AVID TECHNOLOGY INC	AVID
BCB BANCORP INC	BCBP
BEACON ROOFING SUPPLY	BECN
BEAR STATE FINL INC	BSF
BEASLEY BROADCAST GROUP	BBGI
BEAZER HOMES USA INC	BZH
BECTON DICKINSON & CO	BDX
BED BATH & BEYOND INC	BBBY
BEL FUSE INC	BELFB
BELDEN INC	BDC
BELLICUM PHARMACEUTICALS	BLCM
BELMOND LTD	BEL
BEMIS INC	BMS
BENCHMARK ELECTRONICS	BHE
BENEFICIAL BANCORP INC	BNCL
BENEFITFOCUS INC	BNFT
BERKLEY W R CORP	WRB
BERKSHIRE HATHAWAY INC	BRK.B
BERKSHIRE HILLS BANCORP	BHLB
BERRY GLOBAL GROUP	BERY
BEST BUY INC	BBY
BG STAFFING INC	BGSF
BGC PARTNERS INC	BGCP
BIG 5 SPORTING GOODS	BGFV
BIG LOTS INC	BIG
BIGLARI HOLDINGS INC	BH
BILL BARRETT CORP	BBG
BIOCRYST PHARMACEUTICALS	BCRX
BIOGEN INC	BIIB
BIOHAVEN PHARMACEUTICAL	BHVN
BIOMARIN PHARMACEUTICAL	BMRN
BIO-RAD LABORATORIES INC	BIO
BIOSCRIP INC	BIOS
BIOSPECIFICS TECHNO CORP	BSTC
BIO-TECHNE CORP	TECH
BIOTELEMETRY INC	BEAT
BIOTIME INC	BTX
BIOVERATIV	BIVV
BJ'S RESTAURANTS INC	BJRI
BLACK DIAMOND INC	BDE
BLACK HILLS CORP	BKH
BLACK KNIGHT FINL SVCS	BKFS
BLACKBAUD INC	BLKB
BLACKHAWK NETWORK HLDGS	HAWK
BLACKLINE INC	BL
BLACKROCK INC	BLK
BLOCK H & R INC	HRB

Membership list

Russell 3000® Index

Company	Ticker
BAXTER INTERNATIONAL INC	BAX
BAZAARVOICE INC	BV
BB&T CORP	BBT
BLUE BUFFALO PET PROD	BUFF
BLUE CAPITAL REINSURANCE	BCRH
BLUE HILLS BANCORP INC	BHBK
BLUEBIRD BIO INC	BLUE
BLUEPRINT MEDICINES CORP	BPMC
BLUEROCK RESIDENT REIT	BRG
BMC STOCK HOLDINGS INC	BMCH
BOB EVANS FARMS INC	BOBE
BOEING CO	BA
BOFI HLDG INC	BOFI
BOINGO WIRELESS INC	WIFI
BOISE CASCADE COMPANY	BCC
BOJANGLES INC	BOJA
BOK FINANCIAL CORP	BOKF
BONANZA CREEK ENER INC	BCEI
BOOT BARN HOLDINGS	BOOT
BOOZ ALLEN HAMILTON HLDG	BAH
BORG WARNER INC	BWA
BOSTON BEER INC	SAM
BOSTON PRIVATE FINANCIAL	BPFH
BOSTON PROPERTIES INC	BXP
BOSTON SCIENTIFIC CO	BSX
BOTTOMLINE TECHNOLOGIES	EPAY
BOX INC	BOX
BOYD GAMING CORP	BYD
BRADY CORP	BRC
BRANDYWINE REALTY TRUST	BDN
BRIDGE BANCORP INC	BDGE
BRIDGEPOINT ED INC	BPI
BRIGGS & STRATTON CO	BGG
BRIGHT HORIZON FAMILY	BFAM
BRIGHTCOVE INC	BCOV
BRINKER INTERNATIONAL	EAT
BRINKS CO	BCO
BRISTOL MYERS SQUIBB	BMY
BRISTOW GROUP INC	BRIS
BRIXMOR PROPERTY GROUP	BRX
BROADCOM LIMITED	AVGO
BROADRIDGE FINANCIAL INC	BR
BROADSOFT INC	BSFT
BROCADE COMMUNICATIONS	BRCD
BROOKDALE SENIOR LIVING	BKD
BROOKLINE BANCORP INC	BRKL
BROOKS AUTOMATION INC	BRKS
BROWN & BROWN INC	BRO

Company	Ticker
BLOOMIN' BRANDS INC	BLMN
BLUCORA INC	BCOR
BLUE BIRD CORP	BLBD
BRYN MAWR BANK CORP	BMTC
BSB BANCORP INC MD	BLMT
BUCKLE INC	BKE
BUFFALO WILD WINGS INC	BWLD
BUILD A BEAR WORKSHOP	BBW
BUILDERS FIRSTSOURCE INC	BLDR
BUNGE LIMITED	BG
BURLINGTON STORES INC	BURL
BWX TECHNOLOGIES INC	BWXT
C & F FINANCIAL CORP	CFFI
C H ROBINSON WORLDWIDE	CHRW
C&J ENERGY SERVICES INC	CJ
CA INC	CA
CABELAS INC	CAB
CABLE ONE INC	CABO
CABOT CORP	CBT
CABOT MICROELECTRONICS	CCMP
CABOT OIL & GAS CORP	COG
CACI INTERNATIONAL INC	CACI
CADENCE BANCORP	CADE
CADENCE DESIGN SYSTEMS	CDNS
CADIZ INC	CDZI
CAESARS ACQUISITION CO	CACQ
CAESARS ENTMT CORP	CZR
CAESARSTONE LTD	CSTE
CAI INTERNATIONAL INC	CAI
CAL MAINE FOODS INC	CALM
CALAMP CORP	CAMP
CALATLANTIC GROUP INC	CAA
CALAVO GROWERS INC	CVGW
CALERES INC	CAL
CALGON CARBON CORP	CCC
CALIFORNIA FIRST NATL	CFNB
CALIFORNIA RESOURCES	CRC
CALIFORNIA WTR SVC GRP	CWT
CALITHERA BIOSCIENCES	CALA
CALIX INC	CALX
CALLAWAY GOLF CO	ELY
CALLIDUS SOFTWARE INC	CALD
CALLON PETROLEUM CO	CPE
CALPINE CORP	CPN
CAMBIUM LEARNING GRP INC	ABCD
CAMBREX CORP	CBM
CAMDEN NATIONAL CORP	CAC
CAMDEN PROPERTY TRUST	CPT

Membership list

Russell 3000® Index

Company	Ticker
BROWN FORMAN CORP CL A	BF.A
BROWN FORMAN CORP CL B	BF.B
BRUKER CORP	BRKR
BRUNSWICK CORP	BC
CAPITAL BANK FINANCIAL	CBF
CAPITAL CITY BANK GROUP	CCBG
CAPITAL ONE FINANCIAL	COF
CAPITAL SENIOR LIVING	CSU
CAPITOL FEDERAL FINL INC	CFFN
CAPSTAR FINANCIAL HLDG	CSTR
CAPSTEAD MORTGAGE CORP	CMO
CARA THERAPEUTICS INC	CARA
CARBO CERAMICS INC	CRR
CARBONITE INC	CARB
CARDCONNECT CORP	CCN
CARDINAL HEALTH INC	CAH
CARDIOVASCULAR SYS INC	CSII
CARDTRONICS PLC	CATM
CARE CAPITAL PROPERTIES	CCP
CARE.COM INC	CRCM
CAREER EDUCATION CORP	CECO
CARETRUST REIT INC	CTRE
CARLISLE COS INC	CSL
CARMAX INC	KMX
CARNIVAL CORP	CCL
CAROLINA FINL CORP	CARO
CARPENTER TECHNOLOGY	CRS
CARRIAGE SERVICES INC	CSV
CARRIZO OIL & GAS INC	CRZO
CARROLS RESTAURANT GRP	TAST
CARS.COM	CARS
CARTER INC	CRI
CARVANA CO	CVNA
CASCADIAN THERAPEUTICS	CASC
CASELLA WASTE SYSTEMS	CWST
CASEYS GENERAL STORES	CASY
CASS INFORMATION SYSTEMS	CASS
CASTLE BRANDS INC	ROX
CASTLIGHT HEALTH INC	CSLT
CATALENT INC	CTLT
CATALYST PHARMACEUTICALS	CPRX
CATCHMARK TIMBER TRUST	CTT
CATERPILLAR INC	CAT
CATHAY GENERAL BANCORP	CATY
CATO CORP	CATO
CAVCO INDUSTRIES INC	CVCO
CAVIUM INC	CAVM
CBIZ INC	CBZ

Company	Ticker
CAMPBELL SOUP CO	CPB
CAMPING WORLD HOLDINGS	CWH
CANTEL MEDICAL CORP	CMD
CAPELLA EDUCATION CO	CPLA
CDW CORPORATION	CDW
CECO ENVIRONMENTAL CORP	CECE
CEDAR REALTY TRUST INC	CDR
CELANESE CORP	CE
CELGENE CORP	CELG
CELLDEX THERAPEUTICS INC	CLDX
CEMPRA INC	CEMP
CENTENE CORP	CNC
CENTENNIAL RESOURCE DEV	CDEV
CENTERPOINT ENERGY INC	CNP
CENTERSTATE BANKS INC	CSFL
CENTRAL EUROPEAN MEDIA	CETV
CENTRAL GARDEN & PET CO	CENT
CENTRAL GARDEN & PET CO	CENTA
CENTRAL PACIFIC FINL	CPF
CENTRAL VALLEY CMNTY	CVCY
CENTURY ALUMINUM CO	CENX
CENTURY BANCORP INC	CNBKA
CENTURY CASINOS INC	CNTY
CENTURY COMMUNITIES INC	CCS
CENTURYLINK INC	CTL
CERNER CORP	CERN
CERUS CORP	CERS
CEVA INC	CEVA
CF INDUSTRIES HOLDINGS	CF
CHANNELADVISOR CORP	ECOM
CHARLES RIVER LABS INTL	CRL
CHART INDUSTRIES INC	GTLS
CHARTER COMM INC	CHTR
CHARTER FINL CORP WEST	CHFN
CHASE CORP	CCF
CHATHAM LODGING TR	CLDT
CHEESECAKE FACTORY INC	CAKE
CHEFS' WHAREHOUSE INC	CHEF
CHEGG INC	CHGG
CHEMED CORPORATION	CHE
CHEMICAL FINANCIAL CORP	CHFC
CHEMOCENTRYX INC	CCXI
CHEMUNG FINL CORP	CHMG
CHENIERE ENERGY INC	LNG
CHERRY HILL MORTGAGE INV	CHMI
CHESAPEAKE ENERGY CORP	CHK
CHESAPEAKE LODGING TRUST	CHSP
CHESAPEAKE UTILITIES	CPK

Membership list

Russell 3000® Index

Company	Ticker
CBL & ASSOC PPTYS INC	CBL
CBOE HLDGS INC	CBOE
CBRE GROUP INC	CBG
CBS CORPORATION	CBS
CDK GLOBAL INC	CDK
CHIMERIX INC	CMRX
CHIPOTLE MEXICAN GRILL	CMG
CHOICE HOTELS INTL INC	CHH
CHUBB LIMITED	CB
CHURCH & DWIGHT INC	CHD
CHURCHILL DOWNS INC	CHDN
CHUY'S HOLDINGS INC	CHUY
CIENA CORP	CIEN
CIGNA CORP	CI
CIMAREX ENERGY CO	XEC
CIMPRESS NV	CMPR
CINCINNATI BELL INC	CBB
CINCINNATI FINANCIAL	CINF
CINEMARK HOLDINGS INC	CNK
CINTAS CORP	CTAS
CIRCOR INTERNATIONAL INC	CIR
CIRRUS LOGIC INC	CRUS
CISCO SYSTEMS INC	CSCO
CIT GROUP INC	CIT
CITI TRENDS INC	CTRN
CITIGROUP INC	C
CITIZENS & NORTHERN CORP	CZNC
CITIZENS FINANCIAL INC	CFG
CITIZENS INC	CIA
CITRIX SYSTEMS INC	CTXS
CITY HOLDING CO	CHCO
CITY OFFICE REIT INC	CIO
CIVISTA BANCSHARES INC	CIVB
CIVITAS SOLUTIONS	CIVI
CLEAN ENERGY FUELS CORP	CLNE
CLEAN HARBORS INC	CLH
CLEAR CHANNEL OUTDOOR	CCO
CLEARFIELD INC	CLFD
CLEARSIDE BIOMEDICAL INC	CLSD
CLEARWATER PAPER CORP	CLW
CLIFFS NATURAL RESOURCES	CLF
CLIFTON BANCORP INC	CSBK
CLIPPER REALTY INC	CLPR
CLOROX CO	CLX
CLOUD PEAK ENERGY INC	CLD
CLOUDERA INC	CLDR
CLOVIS ONCOLOGY INC	CLVS
CLUBCORP HOLDINGS	MYCC

Company	Ticker
CHEVRON CORP	CVX
CHICAGO BRIDGE & IRON	CBI
CHICOS FAS INC	CHS
CHILDRENS PLACE INC	PLCE
CHIMERA INVESTMENT CORP	CIM
COBIZ FINANCIAL INC	COBZ
COCA COLA BOTTLING	COKE
COCA COLA CO	KO
CODEXIS INC	CDXS
CODORUS VY BANCORP INC	CVLY
COEUR MINING INC	CDE
COGENT COMM HOLDINGS	CCOI
COGINT INC	COGT
COGNEX CORP	CGNX
COGNIZANT TECH SOLUTIONS	CTSH
COHEN & STEERS INC	CNS
COHERENT INC	COHR
COHERUS BIOSCIENCES	CHRS
COHU INC	COHU
COLFAX CORP	CFX
COLGATE PALMOLIVE CO	CL
COLLECTORS UNIVERSE INC	CLCT
COLLEGIUM PHARMACEUTICAL	COLL
COLONY NORTHSTAR INC	CLNS
COLONY STARWOOD HOMES	SFR
COLUMBIA BKG SYSTEM INC	COLB
COLUMBIA PPTY TR INC	CXP
COLUMBIA SPORTSWEAR CO	COLM
COLUMBUS MCKINNON CORP	CMCO
COMCAST CORP CL A	CMCSA
COMERICA INC	CMA
COMFORT SYSTEMS USA INC	FIX
COMMERCE BANCSHARES INC	CBSH
COMMERCE UNION BANCSHARE	CUBN
COMMERCEHUB INC SERIES A	CHUBA
COMMERCEHUB INC SERIES C	CHUBK
COMMERCIAL METALS CO	CMC
COMMERCIAL VEH GROUP INC	CVGI
COMMSCOPE HOLDING CO	COMM
COMMUNITY BANK SYSTEMS	CBU
COMMUNITY BANKERS TRUST	ESXB
COMMUNITY FINL CORP MD	TCFC
COMMUNITY HEALTH SYSTEMS	CYH
COMMUNITY HEALTHCARE TR	CHCT
COMMUNITY TRUST BANCORP	CTBI
COMMVAULT SYSTEMS INC	CVLT
COMPASS MINERALS INTL	CMP
COMPUTER PROGRAMS & SYS	CPSI

Membership list

Russell 3000® Index

Company	Ticker
CME GROUP INC	CME
CMS ENERGY CORP	CMS
CNA FINANCIAL CORP	CNA
CNB FINL CORP PA	CCNE
CNO FINANCIAL GROUP	CNO
COACH INC	COH
CONDUENT INC	CNDT
CONFORMIS INC	CFMS
CONMED CORP	CNMD
CONNECTICUT WATER SVC	CTWS
CONNECTONE BANCORP INC	CNOB
CONNS INC	CONN
CONOCOPHILLIPS	COP
CONSOL ENERGY INC	CNX
CONSOLIDATED COMM	CNSL
CONSOLIDATED EDISON INC	ED
CONSOLIDATED TOMOKA LAND	CTO
CONSOLIDATED WATER CO	CWCO
CONSTELLATION BRANDS	STZ
CONTANGO OIL & GAS CO	MCF
CONTINENTAL BLDG PRODS	CBPX
CONTINENTAL RESOURCES	CLR
CONTROL4 CORPORATION	CTRL
CONVERGYS CORP	CVG
COOPER COMPANIES INC	COO
COOPER STD HLDGS INC	CPS
COOPER TIRE & RUBBER CO	CTB
COPA HOLDINGS SA	CPA
COPART INC	CPRT
CORBUS PHARMACEUTICALS	CRBP
CORCEPT THERAPEUTICS INC	CORT
CORE MARK HOLDING CO INC	CORE
CORE MOLDING TECHN	CMT
CORECIVIC INC	CXW
CORELOGIC INC	CLGX
COREENERGY INFRASTRUCT	CORR
CORESITE REALTY CORP	COR
CORINDUS VASC ROBOTICS	CVRS
CORIUM INTL INC	CORI
CORNERSTONE ONDEMAND INC	CSOD
CORNING INC	GLW
CORPORATE OFFICE PPTYS	OFC
CORVEL CORP	CRVL
CORVUS PHARMACEUTICALS	CRVS
COSTAMARE INC	CMRE
COSTAR GROUP INC	CSGP
COSTCO WHOLESALE CORP	COST
COTIVITI HOLDINGS INC	COTV

Company	Ticker
COMPX INTERNATIONAL INC	CIX
COMTECH TELECOMM	CMTL
CONAGRA BRANDS INC	CAG
CONATUS PHARMACEUTICALS	CNAT
CONCERT PHARMACEUTICALS	CNCE
CONCHO RESOURCES INC	CXO
CPI CARD GROUP INC	PMTS
CR BARD INC	BCR
CRA INTERNATIONAL INC	CRAI
CRACKER BARREL STORE	CBRL
CRAFT BREW ALLIANCE	BREW
CRANE CO	CR
CRAWFORD & CO	CRD.B
CRAY INC	CRAY
CREDIT ACCEP CORP MICH	CACC
CREE INC	CREE
CROCS INC	CROX
CROSS COUNTRY HEALTHCARE	CCRN
CROWN CASTLE INTL CORP	CCI
CROWN HOLDINGS INC	CCK
CRYOLIFE INC	CRY
CSG SYSTEMS INTL INC	CSGS
CSRA INC	CSRA
CSS INDUSTRIES INC	CSS
CST BRANDS INC	CST
CSW INDUSTRIALS INC	CSWI
CSX CORP	CSX
CTS CORP	CTS
CU BANCORP CALIF	CUNB
CUBESMART	CUBE
CUBIC CORP	CUB
CULLEN FROST BANKERS	CFR
CULP INC	CFI
CUMMINS INC	CMI
CURIS INC	CRIS
CURTISS WRIGHT CORP	CW
CUSTOMERS BANCORP INC	CUBI
CUTERA INC	CUTR
CVB FINANCIAL CORP	CVBF
CVR ENERGY INC	CVI
CVS HEALTH CORPORATION	CVS
CYBEROPTICS CORP	CYBE
CYPRESS SEMICONDUCTOR	CY
CYRUSONE INC	CONE
CYS INVESTMENTS INC	CYS
CYTOKINETICS INC	CYTK
CYTOMX THERAPEUTICS INC	CTMX
D R HORTON INC	DHI

Membership list

Russell 3000® Index

Company	Ticker
COTY INC	COTY
COUNTY BANCORP INC	ICBK
COUPA SOFTWARE INC	COUP
COUSINS PROPERTIES INC	CUZ
COVANTA HOLDING CORP	CVA
COVENANT TRANS GRP INC	CVTI
COWEN INC	COWN
DAVE & BUSTERS ENTMT INC	PLAY
DAVITA INC	DVA
DCT INDUSTRIAL TRUST INC	DCT
DDR CORP	DDR
DEAN FOODS COMPANY	DF
DECKERS OUTDOOR CORP	DECK
DEERE & CO	DE
DEL FRISCOS RESTAURANT	DFRG
DEL TACO RESTAURANTS INC	TACO
DELEK US HLDGS INC	DK
DELL TECHNOLOGIES	DVMT
DELPHI AUTOMOTIVE PLC	DLPH
DELTA AIR LINES INC	DAL
DELTA APPAREL INC	DLA
DELTA NATURAL GAS INC	DGAS
DELTAIC TIMBER CORP	DEL
DELUXE CORP	DLX
DENBURY RESOURCES INC	DNR
DENNYS CORP	DENN
DENTSPLY SIRONA INC	XRAY
DEPOMED INC	DEPO
DERMIRA INC	DERM
DEVON ENERGY CORP	DVN
DEXCOM INC	DXCM
DHI GROUP INC	DHX
DHT HOLDINGS INC	DHT
DIAMOND HILL INVESTMENT	DHIL
DIAMOND OFFSHR DRILLING	DO
DIAMONDBACK ENERGY INC	FANG
DIAMONDROCK HOSPITALITY	DRH
DICKS SPORTING GOODS INC	DKS
DIEBOLD NIXDORF	DBD
DIGI INTL INC	DGII
DIGIMARC CORPORATION	DMRC
DIGITAL REALTY TRUST INC	DLR
DIGITALGLOBE INC	DGI
DILLARDS INC	DDS
DIME CMNTY BANCSHARES	DCOM
DINEEQUITY INC	DIN
DIODES INC	DIOD
DIPLOMAT PHARMACY INC	DPLO

Company	Ticker
DAILY JOURNAL CORP	DJCO
DAKTRONICS INC	DAKT
DANA INCORPORATED	DAN
DANAHER CORP	DHR
DARDEN RESTAURANTS INC	DRI
DARLING INGREDIENTS INC	DAR
DASEKE INC	DSKE
DOLLAR GENERAL CORP	DG
DOLLAR TREE INC	DLTR
DOMINION ENERGY INC	D
DOMINOS PIZZA INC	DPZ
DOMTAR CORPORATION	UFS
DONALDSON INC	DCI
DONEGAL GROUP INC	DGICA
DONNELLEY FINANCIAL	DFIN
DONNELLEY R R & SONS CO	RRD
DORIAN LPG LTD	LPG
DORMAN PRODUCTS INC	DORM
DOUGLAS DYNAMICS INC	PLOW
DOUGLAS EMMETT INC	DEI
DOVER CORP	DOV
DOW CHEMICAL CO	DOW
DR PEPPER SNAPPLE GROUP	DPS
DRIL-QUIP INC	DRQ
DRIVE SHACK	DS
DSP GROUP INC	DSPG
DST SYSTEMS INC	DST
DSW INC	DSW
DTE ENERGY CO	DTE
DU PONT E I DE NEMOURS	DD
DUCOMMUN INC	DCO
DUKE ENERGY CORP	DUK
DUKE REALTY CORP	DRE
DULUTH HOLDINGS INC	DLTH
DUN & BRADSTREET CORP	DNB
DUNKIN BRANDS GROUP INC	DNKN
DUPONT FABROS TECHNOLOGY	DFT
DURECT CORP	DRRX
DXC TECHNOLOGY COMPANY	DXC
DXP ENTERPRISES INC	DXPE
DYCOM INDUSTRIES INC	DY
DYNAVAX TECHNOLOGIES	DVAX
DYNEGY INC	DYN
DYNEX CAPITAL INC	DX
E TRADE FINANCIAL CORP	ETFC
EAGLE BANCORP INC	EGBN
EAGLE BULK SHIPPING INC	EGLE
EAGLE MATERIALS INC	EXP

Membership list

Russell 3000® Index

Company	Ticker
DISCOVER FINANCIAL SRVC	DFS
DISCOVERY COMM CL A	DISCA
DISCOVERY COMM CL C	DISCK
DISH NETWORK CORP	DISH
DISNEY WALT CO	DIS
DMC GLOBAL INC	BOOM
DNB FINL CORP	DNBF
DOLBY LABORATORIES INC	DLB
EATON CORP PLC	ETN
EATON VANCE CORP	EV
EBAY INC	EBAY
EBIX INC	EBIX
ECHO GLOBAL LOGISTICS	ECHO
ECHOSTAR CORP	SATS
ECLIPSE RESOURCES CORP	ECR
ECOLAB INC	ECL
EDGE THERAPEUTICS INC	EDGE
EDGEWELL PERSONAL CARE	EPC
EDISON INTERNATIONAL	EIX
EDITAS MEDICINE INC	EDIT
EDUCATION REALTY TRUST	EDR
EDWARDS LIFESCIENCES	EW
EHEALTH INC	EHTH
EL PASO ELECTRIC CO	EE
EL POLLO LOCO HLDGS INC	LOCO
ELDORADO RESORTS INC	ERI
ELECTRO SCIENTIFIC INDS	ESIO
ELECTRONIC ARTS INC	EA
ELECTRONICS FOR IMAGING	EFII
ELEVATE CREDIT INC	ELVT
ELF BEAUTY INC	ELF
ELLIE MAE INC	ELLI
ELLINGTON RESIDENTIAL	EARN
ELLIS PERRY INTL INC	PERY
EMC INS GROUP INC	EMCI
EMCOR GROUP INC	EME
EMCORE CORP	EMKR
EMERALD EXPOSITIONS	EEX
EMERGENT BIOSOLUTIONS	EBS
EMERSON ELECTRIC CO	EMR
EMPIRE RESORTS INC	NYNY
EMPIRE STATE REALTY	ESRT
EMPLOYERS HOLDINGS INC	EIG
ENANTA PHARMACEUTICALS	ENTA
ENCORE CAPITAL GROUP INC	ECPG
ENCORE WIRE CORP	WIRE
ENDO INTERNATIONAL PLC	ENDP
ENDOLOGIX INC	ELGX

Company	Ticker
EAGLE PHARMACEUTICALS	EGRX
EARTHSTONE ENERGY INC	ESTE
EAST WEST BANCORP INC	EWBC
EASTERLY GOVERNMENT PPTY	DEA
EASTERN CO	EML
EASTGROUP PROPERTIES INC	EGP
EASTMAN CHEMICAL CO	EMN
EASTMAN KODAK CO	KODK
ENNIS INC	EBF
ENOVA INTERNATIONAL INC	ENVA
ENPRO INDUSTRIES INC	NPO
ENSCO PLC	ESV
ENSIGN GROUP INC	ENSG
ENSTAR GROUP LIMITED	ESGR
ENTEGR A FINANCIAL CORP	ENFC
ENTEGRIS INC	ENTG
ENTELLUS MEDICAL INC	ENTL
ENTERCOM COMMUNICATIONS	ETM
ENTERGY CORP	ETR
ENTERPRISE BANCORP INC	EBTC
ENTERPRISE FINL SERVICES	EFSC
ENTRAVISION COMM	EVC
ENVESTNET INC	ENV
ENVIROSTAR INC	EVI
ENVISION HEALTHCARE CORP	EVHC
ENZO BIOCHEM INC	ENZ
EOG RESOURCES INC	EOG
EP ENERGY CORPORATION	EPE
EPAM SYSTEMS INC	EPAM
EPIZYME INC	EPZM
EPLUS INC	PLUS
EPR PROPERTIES	EPR
EQT CORPORATION	EQT
EQUIFAX INC	EFX
EQUINIX INC	EQIX
EQUITY BANCSHARE INC	EQBK
EQUITY COMMONWEALTH	EQC
EQUITY LIFESTYLE PROP	ELS
EQUITY RESIDENTIAL	EQR
ERA GROUP INC	ERA
ERIE INDEMNITY CO	ERIE
EROS INTL PLC	EROS
ESCALADE INC	ESCA
ESCO TECHNOLOGIES INC	ESE
ESPERION THERAPEUTICS	ESPR
ESSA BANCORP INC	ESSA
ESSENDANT INC	ESND
ESSENT GROUP LTD	ESNT

Membership list

Russell 3000® Index

Company	Ticker
ENDURANCE INTERNATIONAL	EIGI
ENERGEN CORP	EGN
ENERGIZER HOLDINGS INC	ENR
ENERGOUS CORP	WATT
ENERGY RECOVERY INC	ERII
ENERGY XXI GULF COAST	EXXI
ENERNOC INC	ENOC
ENERSYS INC	ENS
ENGILITY HOLDINGS INC	EGL
EVEREST RE GROUP LTD	RE
EVERI HOLDINGS INC	EVRI
EVERSOURCE ENERGY	ES
EVERTEC INC	EVTC
EVOLENT HEALTH INC	EVH
EVOLUTION PETROLEUM CORP	EPM
EXA CORP	EXA
EXACT SCIENCES CORP	EXAS
EXACTECH INC	EXAC
EXELIXIS INC	EXEL
EXELON CORP	EXC
EXLSERVICE HOLDINGS INC	EXLS
EXONE COMPANY	XONE
EXPEDIA INC	EXPE
EXPEDITORS INTL OF WASH	EXPD
EXPONENT INC	EXPO
EXPRESS INC	EXPR
EXPRESS SCRIPTS HOLD CO	ESRX
EXTENDED STAY AMERICA	STAY
EXTERRAN CORPORATION	EXTN
EXTRA SPACE STORAGE INC	EXR
EXTRACTION OIL & GAS INC	XOG
EXTREME NETWORKS INC	EXTR
EXXON MOBIL CORP	XOM
EZCORP INC	EZPW
F5 NETWORKS INC	FFIV
FABRINET	FN
FACEBOOK INC	FB
FACTSET RESEARCH SYSTEMS	FDS
FAIR ISAAC CORP	FICO
FAIRMOUNT SANTROL HLDGS	FMSA
FAIRPOINT COMMUNICATIONS	FRP
FARMER BROS CO	FARM
FARMERS & MERCHANTS BNCP	FMAO
FARMERS CAPITAL BK CORP	FFKT
FARMERS NATL BANC CORP	FMNB
FARMLAND PARTNERS INC	FPI
FARO TECHNOLOGIES INC	FARO
FASTENAL CO	FAST

Company	Ticker
ESSEX PROPERTY TRUST INC	ESS
ESTEE LAUDER COMPANIES	EL
ESTERLINE TECHNOLOGIES	ESL
ETHAN ALLEN INTERIORS	ETH
ETSY INC	ETSY
EURONET WORLDWIDE INC	EEFT
EVANS BANCORP INC	EVBN
EVERBRIDGE INC	EVBG
EVERCORE PARTNERS	EVR
FELCOR LODGING TRUST INC	FCH
FERRO CORP	FOE
FIBROGEN INC	FGEN
FIDELITY & GUARANTY	FGL
FIDELITY NATL INFO SVCS	FIS
FIDELITY SOUTHERN CORP	LION
FIESTA RESTAURANT GROUP	FRGI
FIFTH STREET ASSET MGMT	FSAM
FIFTH THIRD BANCORP	FITB
FINANCIAL ENGINES INC	FNGN
FINANCIAL INSTNS INC	FISI
FINISAR CORP	FNSR
FINISH LINE INC	FINL
FIREEYE INC	FEYE
FIRST AMERICAN FINL CORP	FAF
FIRST BANCORP INC	FNLC
FIRST BANCORP NC	FBNC
FIRST BANCORP PR	FBP
FIRST BANCSHARES INC MS	FBMS
FIRST BUSEY CORP	BUSE
FIRST BUSINESS FINL SVCS	FBIZ
FIRST CITIZENS BANCSHRS	FCNCA
FIRST CMNTY BANCSHAR	FCBC
FIRST COMMONWLTH FINL	FCF
FIRST COMMUNITY FINL INC	FCFP
FIRST CONN BANCORP INC	FBNK
FIRST DATA CORPORATION	FDC
FIRST DEFIANCE FINANCIAL	FDEF
FIRST FINANCIAL BANCORP	FFBC
FIRST FINANCIAL CORP	THFF
FIRST FINL BANKSHARES	FFIN
FIRST FINL NORTHWEST	FFNW
FIRST FNDTN INC	FFWM
FIRST GUARANTY BANCSHARE	FGBI
FIRST HAWAIIAN INC	FHB
FIRST HORIZON NATL CORP	FHN
FIRST INDUSTRIAL RLTY TR	FR
FIRST INTERNET BANCORP	INBK
FIRST INTST BANCSYSTEM	FIBK

Membership list

Russell 3000® Index

Company	Ticker
FATE THERAPEUTICS INC	FATE
FB FINANCIAL CORP	FBK
FBL FINANCIAL GROUP INC	FFG
FCB FINANCIAL HOLDINGS	FCB
FEDERAL AGRIC MTG CO	AGM
FEDERAL REALTY INV	FRT
FEDERAL SIGNAL CORP	FSS
FEDERATED INVESTORS INC	FII
FEDERATED NATL HOLDING	FNHC
FEDEX CORP	FDX
FISERV INC	FISV
FITBIT INC	FIT
FIVE BELOW	FIVE
FIVE PRIME THERAPEUTICS	FPRX
FIVE9 INC	FIVN
FLAGSTAR BANCORP INC	FBC
FLEETCOR TECHNOLOGIES	FLT
FLEXION THERAPEUTICS INC	FLXN
FLEXSTEEL INDUSTRIES INC	FLXS
FLIR SYSTEMS INC	FLIR
FLOOR & DECOR HOLDINGS	FND
FLOTEK INDUSTRIES INC	FTK
FLOWERS FOODS INC	FLO
FLOWSERVE CORP	FLS
FLUIDIGM CORP	FLDM
FLUOR CORP	FLR
FLUSHING FINANCIAL CORP	FFIC
FMC CORP	FMC
FNB BANCORP	FNBG
FNB CORP	FNB
FNF GROUP	FNF
FNFV GROUP	FNFV
FOGO DE CHAI INC	FOGO
FONAR CORP	FONR
FOOT LOCKER INC	FL
FORD MOTOR CO	F
FOREST CITY REALTY TRUST	FCE.A
FORESTAR GROUP INC	FOR
FORMFACTOR INC	FORM
FORRESTER RESEARCH INC	FORR
FORTERRA INC	FRTA
FORTINET INC	FTNT
FORTIVE CORPORATION	FTV
FORTRESS BIOTECH INC	FBIO
FORTUNE BRDS HOME & SEC	FBHS
FORUM ENERGY TECH	FET
FORWARD AIR CORP	FWRD
FOSSIL GROUP INC	FOSL

Company	Ticker
FIRST LONG ISLAND CORP	FLIC
FIRST MERCHANTS CORP	FRME
FIRST MID ILL BANCSHARES	FMBH
FIRST MIDWEST BANCORP	FMBI
FIRST NORTHWEST BANCORP	FNWB
FIRST POTOMAC REALTY TR	FPO
FIRST REP BK SAN FRAN	FRC
FIRST SOLAR INC	FSLR
FIRSTCASH INC	FCFS
FIRSTENERGY CORP	FE
FRANKLIN STREET PPTYS CO	FSP
FREDS INC	FRED
FREEMPORT-MCMORAN INC	FCX
FREIGHTCAR AMERICA INC	RAIL
FRESH DEL MONTE PRODUCE	FDP
FRESHPET INC	FRPT
FRONTIER COMMUNICATIONS	FTR
FRONTLINE LTD	FRO
FRP HOLDINGS INC	FRPH
FTD COMPANIES INC	FTD
FTI CONSULTING INC	FCN
FULTON FINANCIAL CORP	FULT
FUTUREFUEL CORPORATION	FF
GAIA INC	GAIA
GAIN CAPITAL HLDNGS INC	GCAP
GALLAGHER ARTHUR J & CO	AJG
GAMCO INVESTORS INC	GBL
GAMESTOP CORP	GME
GAMING AND LEISURE PPTYS	GLPI
GANNETT CO INC	GCI
GAP INC	GPS
GARDNER DENVER HOLDINGS	GDI
GARMIN LTD	GRMN
GARTNER INC	IT
GASLOG LTD	GLOG
GASTAR EXPL INC	GST
GATX CORP	GATX
GCP APPLIED TECHNOLOGIES	GCP
GENCO SHIPPING & TRADING	GNK
GENCOR INDUSTRIES INC	GENC
GENER8 MARITIME INC	GNRT
GENERAC HOLDINGS INC	GNRC
GENERAL CABLE CORP	BGC
GENERAL COMMUNICATION	GNCMA
GENERAL DYNAMICS CORP	GD
GENERAL ELECTRIC CO	GE
GENERAL MILLS INC	GIS
GENERAL MTRS CO	GM

Membership list

Russell 3000® Index

Company	Ticker
FOSTER L B CO	FSTR
FOUNDATION BLDG MATERIAL	FBM
FOUNDATION MEDICINE INC	FMI
FOUR CORNERS PPTY TRUST	FCPT
FOX FACTORY HOLDING CORP	FOXF
FRANCESCAS HOLDINGS CORP	FRAN
FRANKLIN COVEY CO	FC
FRANKLIN ELECTRIC CO	FELE
FRANKLIN FINANCIAL NTWK	FSB
FRANKLIN RESOURCES INC	BEN
FRANK'S INTERNATIONAL	FI
GENUINE PARTS CO	GPC
GENWORTH FINANCIAL INC	GNW
GEO GROUP INC	GEO
GEOSPACE TECHNOLOGIES	GEOS
GERMAN AMERICAN BANCORP	GABC
GERON CORP	GERN
GETTY REALTY CORP	GTY
GGP INC	GGP
GIBRALTAR INDUSTRIES INC	ROCK
GIGAMON INC	GIMO
GILEAD SCIENCES INC	GILD
GLACIER BANCORP INC	GBCI
GLADSTONE COMMERCIAL	GOOD
GLATFELTER	GLT
GLAUKOS CORPORATION	GKOS
GLOBAL BLOOD THERA	GBT
GLOBAL BRASS & COPPER HLD	BRSS
GLOBAL EAGLE ENTMT INC	ENT
GLOBAL INDEMNITY LTD	GBLI
GLOBAL MEDICAL REIT INC	GMRE
GLOBAL NET LEASE INC	GNL
GLOBAL PAYMENTS INC	GPN
GLOBAL SOURCES LTD	GSOL
GLOBAL WATER RESOURCES	GWRS
GLOBALSTAR INC	GSAT
GLOBUS MEDICAL INC	GMED
GLU MOBILE INC	GLUU
GMS INC	GMS
GNC HLDGS INC	GNC
GODADDY INC	GDDY
GOGO INC	GOGO
GOLAR LNG LTD BERMUDA	GLNG
GOLD RESOURCE CORP	GORO
GOLDEN ENTERTAINMENT INC	GDEN
GOLDMAN SACHS GROUP INC	GS
GOODYEAR TIRE & RUBBER	GT
GOPRO INC	GPRO

Company	Ticker
GENESCO INC	GCO
GENESEE & WYOMING INC	GWR
GENESIS HEALTHCARE INC	GEN
GENIE ENERGY LTD	GNE
GENMARK DIAGNOSTICS INC	GNMK
GENOCEA BIOSCIENCES INC	GNCA
GENOMIC HEALTH INC	GHDX
GENPACT LTD	G
GENTEX CORP	GNTX
GENTHERM INC	THRM
G-III APPAREL GROUP LTD	GIII
GRAY TELEVISION INC	GTN
GREAT AJAX CORP	AJX
GREAT LAKES DREDGE & DOC	GLDD
GREAT PLAINS ENERGY INC	GXP
GREAT SOUTHERN BANCORP	GSBC
GREAT WESTERN BANCORP	GWB
GREEN BANCORP INC	GNBC
GREEN BRICK PARTNERS INC	GRBK
GREEN DOT CORP	GDOT
GREEN PLAINS INC	GPRE
GREENBRIER COMPANIES INC	GBX
GREENE COUNTY BANCORP	GCBC
GREENHILL & CO INC	GHL
GREENLIGHT CAPITAL RE LT	GLRE
GREIF INC	GEF
GREIF INC	GEF.B
GRIFFIN INDUSTRIAL RLTY	GRIF
GRIFFON CORP	GFF
GROUP 1 AUTOMOTIVE INC	GPI
GROUPON INC	GRPN
GRUBHUB INC	GRUB
GSI TECHNOLOGY	GSIT
GTT COMMUNICATIONS INC	GTT
GUARANTY BANCORP	GBNK
GUARANTY BANCSHARES INC	GNTY
GUESS INC	GES
GUIDANCE SOFTWARE INC	GUID
GUIDEWIRE SOFTWARE INC	GWRE
GULF ISLAND FABRICATION	GIFI
GULFPORT ENERGY CORP	GPOR
H&E EQUIPMENT SERVICES	HEES
HABIT RESTAURANTS	HABT
HACKETT GROUP INC	HCKT
HAEMONETICS CORP	HAE
HAIN CELESTIAL GROUP	HAIN
HALCON RESOURCES CORP	HK
HALLADOR ENERGY CO	HNRG

Membership list

Russell 3000® Index

Company	Ticker
GORMAN RUPP CO	GRC
GOVERNMENT PPTY INCOME	GOV
GP STRATEGIES CORP	GPX
GRACE W R & CO	GRA
GRACO INC	GGG
GRAHAM CORP	GHM
GRAHAM HOLDINGS COMPANY	GHC
GRAINGER WW INC	GWW
GRAMERCY PROPERTY TRUST	GPT
GRAND CANYON EDUCATION	LOPE
GRANITE CONSTR INC	GVA
GRAPHIC PACKAGING HLDG	GPK
HARDINGE INC	HDNG
HARLEY DAVIDSON INC	HOG
HARMONIC INC	HLIT
HARRIS CORP	HRS
HARSCO CORP	HSC
HARTFORD FINL SVCS GRP	HIG
HASBRO INC	HAS
HAVERTY FURNITURE INC	HVT
HAWAIIAN ELECTRIC INDS	HE
HAWAIIAN HOLDINGS INC	HA
HAWAIIAN TELCOM HOLDCO	HCOM
HAWKINS INC	HWKN
HAYNES INTERNATIONAL INC	HAYN
HB FULLER COMPANY	FUL
HC2 HLDGS INC	HCHC
HCA HEALTHCARE INC	HCA
HCI GROUP INC	HCI
HCP INC	HCP
HD SUPPLY HOLDINGS INC	HDS
HEALTH INS INNOVATIONS	HIIQ
HEALTHCARE REALTY TRUST	HR
HEALTHCARE SVCS GRP INC	HCSG
HEALTHCARE TR AMER INC	HTA
HEALTH EQUITY INC	HQY
HEALTHSOUTH CORP	HLS
HEALTHSTREAM INC	HSTM
HEARTLAND EXPRESS INC	HTLD
HEARTLAND FINANCIAL USA	HTLF
HECLA MINING CO	HL
HEICO CORP CL A	HEI.A
HEICO CORP COMMON	HEI
HEIDRICK & STRUGGLES	HSII
HELEN OF TROY LTD	HELE
HELIX ENERGY SOLUTIONS	HLX
HELMERICH & PAYNE INC	HP
HEMISPHERE MEDIA GROUP	HMTV

Company	Ticker
HALLIBURTON CO	HAL
HALLMARK FINL SVCS INC	HALL
HALOZYME THERAPEUTICS	HALO
HALYARD HEALTH INC	HYH
HAMILTON LANE INC	HLNE
HANCOCK HOLDING CO	HBHC
HANDY & HARMAN HLDGS LTD	HNH
HANESBRAND INC	HBI
HANMI FINANCIAL CORP	HAFC
HANNON ARMSTRONG SUSTAIN	HASI
HANOVER INSURANCE GROUP	THG
HARBORONE BANCORP INC	HONE
HESS CORP	HES
HEWLETT PACKARD ENT	HPE
HEXCEL CORP	HXL
HFF INC	HF
HIBBETT SPORTS INC	HIBB
HIGHWOODS PROPERTIES INC	HIW
HILL INTERNATIONAL INC	HIL
HILLENBRAND INC	HI
HILL-ROM HOLDINGS INC	HRC
HILLTOP HOLDINGS INC	HTH
HILTON GRAND VACATIONS	HGV
HILTON WORLDWIDE HOLDING	HLT
HINGHAM INSTN SVGS MASS	HIFS
HMS HOLDINGS CORP	HMSY
HNI CORPORATION	HNI
HOLLYFRONTIER CORP	HFC
HOLOGIC INC	HOLX
HOME BANCORP INC	HBCP
HOME BANCSHARES INC	HOMB
HOME DEPOT INC	HD
HOMESTREET INC	HMST
HOMETRUST BANCSHARES INC	HTBI
HONEYWELL INTERNATIONAL	HON
HOOKER FURNITURE CORP	HOFT
HOPE BANCORP INC	HOPE
HORACE MANN EDUCATORS	HMN
HORIZON BANCORP IND	HBNC
HORIZON GLOBAL CORP	HZN
HORIZON PHARMA PLC	HZNP
HORMEL FOODS CORP	HRL
HORTONWORKS INC	HDP
HOSPITALITY PPTYS TRUST	HPT
HOST HOTELS & RESORTS	HST
HOSTESS BRANDS INC	TWNK
HOUGHTON MIFFLIN HARCOUR	HMHC
HOULIHAN LOKEY INC	HLI

Membership list

Russell 3000® Index

Company	Ticker
HENRY JACK & ASSOCIATES	JKHY
HERBALIFE LTD	HLF
HERC HOLDING INC	HRI
HERITAGE COMMERCE CORP	HTBK
HERITAGE CRYL CLEAN INC	HCCI
HERITAGE FINANCIAL CORP	HFVA
HERITAGE INS HLDGS INC	HRTG
HERMAN MILLER INC	MLHR
HERON THERAPEUTICS INC	HRTX
HERSHA HOSPITALITY TRUST	HT
HERSHEY COMPANY	HSY
HERTZ GLOBAL HOLDINGS	HTZ
HESKA CORP	HSKA
HUNTINGTON INGALLS IND	HII
HUNTSMAN CORP	HUN
HURCO COMPANIES INC	HURC
HURON CONSULTING GROUP	HURN
HUTTIG BUILDING PRODUCTS	HBP
HYATT HOTELS CORP	H
HYSTER-YALE MATERIALS	HY
IAC INTERACTIVECORP	IAC
IBERIABANK CORP	IBKC
ICF INTERNATIONAL INC	ICFI
ICHOR HOLDINGS INC	ICHR
ICONIX BRAND GROUP INC	ICON
ICU MEDICAL INC	ICUI
IDACORP INC	IDA
IDERA PHARMACEUTICALS	IDRA
IDEX CORP	IEX
IDEXX LABS INC	IDXX
IDT CORP	IDT
IES HOLDINGS INC	IESC
IGNYTA INC	RXDX
IHS MARKIT LTD	INFO
II VI INC	IIVI
ILG INC	ILG
ILLINOIS TOOL WORKS INC	ITW
ILLUMINA INC	ILMN
IMAX CORP	IMAX
IMMERION CORP	IMMR
IMMUNE DESIGN CORP	IMDZ
IMMUNOGEN INC	IMGN
IMMUNOMEDICS INC	IMMU
IMPAC MTG HLDGS INC	IMH
IMPAX LABORATORIES INC	IPXL
IMPERVA INC	IMPV
IMPINJ INC	PI
INC RESEARCH HOLDINGS	INCR

Company	Ticker
HOVNIANIAN ENTERPRISES	HOV
HOWARD BANCORP INC	HBMD
HOWARD HUGHES CORP	HHC
HP INC	HPQ
HRG GROUP INC	HRG
HSN INC	HSNI
HUB GROUP INC	HUBG
HUBBELL INC	HUBB
HUBSPOT INC	HUBS
HUDSON PAC PPTYS INC	HPP
HUDSON TECHNOLOGIES INC	HDSN
HUMANA INC	HUM
HUNTINGTON BANCSHARES	HBAN
INGREDION INC	INGR
INNERWORKINGS INC	INWK
INNOPHOS HOLDINGS INC	IPHS
INNOVOSPEC INC	IOSP
INNOVIVA INC	INVA
INOGEN INC	INGN
INOVALON HOLDINGS INC	INOV
INOVIO PHARMACEUTICALS	INO
INPHI CORP	IPHI
INSIGHT ENTERPRISES INC	NSIT
INSMED INC	INSM
INSPERITY INC	NSP
INSPIRED ENTERTAINMENT	INSE
INSTALLED BLDNG PRODUCTS	IBP
INSTEEL INDUSTRIES INC	IIIN
INSTRUCTURE INC	INST
INSULET CORP	PODD
INSYS THERAPEUTICS INC	INSY
INTEGER HOLDINGS CORP	ITGR
INTEGRA LIFESCIENCES	IART
INTEGRATED DEVICE TECH	IDTI
INTEL CORP	INTC
INTELLA THERAPEUTICS INC	NTLA
INTELSAT SA	I
INTER PARFUMS INC	IPAR
INTERACTIVE BROKERS GRP	IBKR
INTERCEPT PHARMA INC	ICPT
INTERCONTINENTAL EXCH	ICE
INTERDIGITAL INC	IDCC
INTERFACE INC	TILE
INTERNAP CORPORATION	INAP
INTERNATIONAL BANCSHARES	IBOC
INTERNATIONAL GAME TECH	IGT
INTERNATIONAL PAPER CO	IP
INTERNATIONAL SEAWAYS	INSW

Membership list

Russell 3000® Index

Company	Ticker
INCYTE CORP	INCY
IND CONTRACT DRILLING	ICD
INDEPENDENCE HOLDING CO	IHC
INDEPENDENCE RLTY TRUST	IRT
INDEPENDENT BANK CORP	IBCP
INDEPENDENT BANK MA	INDB
INDEPENDENT BK GROUP INC	IBTX
INFINERA CORP	INFN
INFINITY PPTY & CAS CORP	IPCC
INFORMATION SERVICES GRP	III
INFRAEIT INC	HIFR
INGERSOLL-RAND PLC	IR
INGEVITY CORPORATION	NGVT
INGLES MARKETS INC	IMKTA
INVESCO LTD	IVZ
INVESCO MORTGAGE CAP	IVR
INVESTAR HOLDING CORP	ISTR
INVESTMENT TECHNOLOGY	ITG
INVESTORS BANCORP INC	ISBC
INVESTORS REAL ESTATE TR	IRET
INVESTORS TITLE CO	ITIC
INVITAE CORPORATION	NVTA
INVITATION HOMES INC	INVH
IONIS PHARMACEUTICALS	IONS
IPG PHOTONICS CORP	IPGP
IRHYTHM TECHNOLOGIES INC	IRTC
IRIDIUM COMMUNICATIONS	IRDM
IROBOT CORP	IRBT
IRON MOUNTAIN INC	IRM
IRONWOOD PHARMACEUTICALS	IRWD
ISRAMCO INC	ISRL
ISTAR INC	STAR
ITERIS INC	ITI
ITRON INC	ITRI
ITT INC	ITT
IXYS CORP	IXYS
J & J SNACK FOODS CO	JJSF
J ALEXANDERS HOLDINGS	JAX
J2 GLOBAL INC	JCOM
JABIL INC	JBL
JACK IN THE BOX INC	JACK
JACOBS ENGINEERING GRP	JEC
JAGGED PEAK ENERGY INC	JAG
JAMES RIVER GROUP HLDG	JRVR
JB HUNT TRANS SVCS INC	JBHT
JELD-WEN HOLDING INC	JELD
JERNIGAN CAP INC	JCAP
JETBLUE AIRWAYS CORP	JBLU

Company	Ticker
INTERNATIONAL SPEEDWAY	ISCA
INTERPUBLIC GROUP OF COS	IPG
INTERSECT ENT INC	XENT
INTEVAC INC	IVAC
INTL BUSINESS MACHINES	IBM
INTL FCSTONE INC	INTL
INTL FLAVORS & FRAGRANCE	IFF
INTRA CELLULAR THERAPIES	ITCI
INTRAWEST RSRTS HLDG INC	SNOW
INTREPID POTASH INC	IPI
INTREXON CORP	XON
INTUIT	INTU
INTUITIVE SURGICAL INC	ISRG
INVACARE CORP	IVC
KAMAN CORP	KAMN
KANSAS CITY SOUTHERN	KSU
KAPSTONE PAPER AND PACK	KS
KAR AUCTION SERVICES INC	KAR
KARYOPHARM THERAPEUTICS	KPTI
KATE SPADE & CO	KATE
KB HOME	KBH
KBR INC	KBR
KCG HOLDINGS INC	KCG
KEANE GROUP INC	FRAC
KEARNY FINANCIAL CORP	KRNY
KELLOGG CO	K
KELLY SERVICES INC	KELYA
KEMET CORP	KEM
KEMPER CORPORATION	KMPR
KENNAMETAL INC	KMT
KENNEDY-WILSON HLDGS INC	KW
KERYX BIOPHARMACEUTICALS	KERX
KEY ENERGY SERVICES INC	KEG
KEYCORP	KEY
KEYSIGHT TECHNOLOGIES	KEYS
KEYW HOLDING CORP	KEYW
KFORCE INC	KFRC
KILROY REALTY CORP	KRC
KIMBALL ELECTRONICS INC	KE
KIMBALL INTERNATIONAL	KBAL
KIMBERLY CLARK CORP	KMB
KIMCO REALTY CORP	KIM
KINDER MORGAN INC	KMI
KINDRED BIOSCIENCES INC	KIN
KINDRED HEALTHCARE INC	KND
KINGSTONE COS INC	KINS
KINSALE CAPITAL GROUP	KNSL
KIRBY CORP	KEX

Membership list

Russell 3000® Index

Company	Ticker
JJILL INC	JILL
JOHN BEAN TECH CORP	JBT
JOHNSON & JOHNSON	JNJ
JOHNSON CONTROLS INTNL	JCI
JOHNSON OUTDOORS INC	JOUT
JONES ENERGY INC	JONE
JONES LANG LASALLE INC	JLL
JOUNCE THERAPEUTICS INC	JNCE
JPMORGAN CHASE & CO	JPM
JUNIPER NETWORKS INC	JNPR
JUNO THERAPEUTICS INC	JUNO
K12 INC	LRN
K2M GROUP HLDGS INC	KTWO
KADANT INC	KAI
KAISER ALUMINUM CORP	KALU
KOSMOS ENERGY LTD	KOS
KRATON CORPORATION	KRA
KRATOS DEFENSE & SEC SOL	KTOS
KROGER CO	KR
KRONOS WORLDWIDE INC	KRO
KURA ONCOLOGY INC	KURA
KVH INDUSTRIES INC	KVHI
L BRANDS INC	LB
L3 TECHNOLOGIES	LLL
LA JOLLA PHARMACEUTICAL	LJPC
LA QUINTA HLDGS INC	LQ
LA Z BOY INC	LZB
LABORATORY CORP OF AMER	LH
LADDER CAPITAL CORP	LADR
LADENBURG THALMAN FIN	LTS
LAKELAND BANCORP INC	LBAI
LAKELAND FINANCIAL CORP	LKFN
LAM RESEARCH CORP	LRCX
LAMAR ADVERTISING CO	LAMR
LAMB WESTON HOLDINGS	LW
LANCASTER COLONY CORP	LANC
LANDAUER INC	LDR
LANDEC CORP	LNDC
LANDS END INC	LE
LANDSTAR SYSTEMS INC	LSTR
LANNETT CO INC	LCI
LANTHEUS HOLDINGS INC	LNTH
LAREDO PETROLEUM INC	LPI
LAS VEGAS SANDS CORP	LVS
LASALLE HOTEL PROPERTIES	LHO
LATTICE SEMICONDUCTOR	LSCC
LAUREATE EDUCATION INC	LAUR
LAWSON PRODUCTS INC	LAWS

Company	Ticker
KIRKLANDS INC	KIRK
KITE PHARMA INC	KITE
KITE REALTY GROUP TRUST	KRG
KKR REAL ESTATE FINANCE	KREF
KLA-TENCOR CORP	KLAC
KLONDEX MINES LTD	KLDX
KLX INC	KLXI
KMG CHEMICALS INC	KMG
KNIGHT TRANSPORTATION	KNX
KNOLL INC	KNL
KNOWLES CORPORATION	KN
KOHL'S CORP	KSS
KOPIN CORP	KOPN
KOPPERS HOLDINGS INC	KOP
KORN FERRY INTERNATIONAL	KFY
LEUCADIA NATIONAL CORP	LUK
LEVEL 3 COMMUNICATIONS	LVLT
LEXICON PHARMACEUTICALS	LXR
LEXINGTON REALTY TRUST	LXP
LGI HOMES INC	LGIH
LHC GROUP INC	LHCG
LIBBEY INC	LB
LIBERTY BRAVES SERIES A	BATRA
LIBERTY BRAVES SERIES C	BATRK
LIBERTY BROADBAND CL A	LBRDA
LIBERTY BROADBAND CL C	LBRDK
LIBERTY EXPEDIA HOLDINGS	LEXEA
LIBERTY FORMULA 1 SER A	FWONA
LIBERTY FORMULA 1 SER C	FWONK
LIBERTY INTERACTIVE QVC	QVCA
LIBERTY PROPERTY TRUST	LPT
LIBERTY SIRIUSXM SER A	LSXMA
LIBERTY SIRIUSXM SER C	LSXMK
LIBERTY TAX INC	TAX
LIBERTY TRIPADVISOR HLDG	LTRPA
LIBERTY VENTURES	LVNTA
LIFE STORAGE INC	LSI
LIFEPOINT HEALTH INC	LPNT
LIFETIME BRANDS INC	LCUT
LIFEWAY FOODS INC	LWAY
LIGAND PHARMACEUTICALS	LGND
LILIS ENERGY INC	LLEX
LILLY ELI & CO	LLY
LIMELIGHT NETWORKS INC	LLNW
LIMONEIRA CO	LMNR
LINCOLN ELECTRIC HLDGS	LECO
LINCOLN NATIONAL CORP	LNC
LINDBLAD EXPEDITIONS INC	LIND

Membership list

Russell 3000® Index

Company	Ticker
LAYNE CHRISTENSEN CO	LAYN
LAZARD LTD	LAZ
LCI INDUSTRIES	LCII
LCNB CORP	LCNB
LEAF GROUP LTD	LFGR
LEAR CORP	LEA
LEGACYTEXAS FIN GROUP	LTXB
LEGG MASON INC	LM
LEGGETT & PLATT INC	LEG
LEIDOS HOLDINGS INC	LDOS
LEMAITRE VASCULAR INC	LMAT
LENDINGCLUB CORPORATION	LC
LENDINGTREE INC	TREE
LENNAR CORP CL A	LEN
LENNAR CORP CL B	LEN.B
LENNOX INTERNATIONAL INC	LII
LORAL SPACE & COMM	LORL
LOUISIANA PACIFIC CORP	LPX
LOWES COS INC	LOW
LOXO ONCOLOGY INC	LOXO
LPL FINANCIAL HOLDINGS	LPLA
LSB INDUSTRIES INC	LXU
LSC COMMUNICATIONS	LKSD
LSI INDUSTRIES INC	LYTS
LTC PROPERTIES INC	LTC
LULULEMON ATHLETICA INC	LULU
LUMBER LIQUIDATORS HLDGS	LL
LUMENTUM HOLDINGS INC	LITE
LUMINEX CORP	LMNX
LUMOS NETWORKS CORP	LMOS
LYDALL INC	LDL
LYONDELLBASELL INDS	LYB
M & T BANK CORP	MTB
M/I HOMES INC	MHO
MACATAWA BANK CORP	MCBC
MACERICH CO	MAC
MACK CALI REALTY CORP	CLI
MACOM TECH SOLUTIONS	MTSI
MACQUARIE INFRASTRUCTURE	MIC
MACROGENICS INC	MGNX
MACYS INC	M
MADDEN STEVEN LTD	SHOO
MADISON SQUARE GARDEN CO	MSG
MADRIGAL PHARMACEUTICALS	MDGL
MAGELLAN HEALTH INC	MGLN
MAIDEN HOLDINGS LTD	MHLD
MAINSOURCE FINANCIAL GRP	MSFG
MAJESCO	MJCO

Company	Ticker
LINDSAY CORP	LNN
LION BIOTECHNOLOGIES INC	LBIO
LIONS GATE ENT CLASS A	LGF.A
LIONS GATE ENT CLASS B	LGF.B
LIQUIDITY SERVICES INC	LQDT
LITHIA MOTORS INC	LAD
LITTELFUSE INC	LFUS
LIVANOVA PLC	LIVN
LIVE NATION ENT INC	LYV
LIVE OAK BANCSHARES INC	LOB
LIVEPERSON INC	LPSN
LKQ CORP	LKQ
LMI AEROSPACE INC	LMIA
LOCKHEED MARTIN CORP	LMT
LOEWS CORP	L
LOGMEIN INC	LOGM
MARRIOTT INTL INC	MAR
MARRIOTT VAC WORLD CORP	VAC
MARSH & MCLENNAN COS	MMC
MARTEN TRANS LTD	MRTN
MARTIN MARIETTA MTL	MLM
MARVELL TECHNOLOGY GROUP	MRVL
MASCO CORP	MAS
MASIMO CORPORATION	MASI
MASONITE INTL CORP	DOOR
MASTEC INC	MTZ
MASTERCARD INC	MA
MATADOR RES CO	MTDR
MATCH GROUP INC	MTCH
MATERION CORPORATION	MTRN
MATINAS BIOPHARMA HLDG	MTNB
MATRIX SERVICE CO	MTRX
MATSON INC	MATX
MATTEL INC	MAT
MATTHEWS INTERNATIONAL	MATW
MAUI LAND & PINEAPPLE CO	MLP
MAXIM INTEGRATED PRODS	MXIM
MAXIMUS INC	MMS
MAXLINEAR INC	MXL
MAXWELL TECHNOLOGIES INC	MXWL
MB FINANCIAL INC	MBFI
MBIA INC	MBI
MBT FINL CORP	MBTF
MCBC HOLDINGS INC	MCFT
MCCORMICK & CO INC	MKC
MCDERMOTT INTL INC	MDR
MCDONALDS CORP	MCD
MCGRATH RENTCORP	MGRC

Membership list

Russell 3000® Index

Company	Ticker	Company	Ticker
MALIBU BOATS INC	MBUU	MCKESSON CORP	MCK
MALLINCKRODT PLC	MNK	MDC CORP	MDCA
MALVERN BANCORP INC	MLVF	MDC HOLDINGS INC	MDC
MAMMOTH ENERGY SERVICES	TUSK	MDU RESOURCES GROUP INC	MDU
MANHATTAN ASSOCS INC	MANH	MEDEQUITIES REALTY TRUST	MRT
MANITOWOC CO INC	MTW	MEDICAL PROPERTIES TRUST	MPW
MANPOWERGROUP	MAN	MEDICINES CO	MDCO
MANTECH INTERNATIONAL	MANT	MEDICINOVA INC	MNOV
MARATHON OIL CORP	MRO	MEDIDATA SOLUTIONS INC	MDSO
MARATHON PETROLEUM CORP	MPC	MEDIFAST INC	MED
MARCUS & MILLICHAP	MMI	MEDLEY MANAGEMENT INC	MDLY
MARCUS CORP	MCS	MEDNAX INC	MD
MARINE PRODUCTS CORP	MPX	MEDPACE HOLDINGS INC	MEDP
MARINEMAX INC	HZO	MEDTRONIC PLC	MDT
MARKEL CORP	MKL	MERCANTILE BANK CORP	MBWM
MARKETAXESS HOLDINGS INC	MKTX	MERCK & CO INC	MRK
MARLIN BUSINESS SVCS	MRLN	MERCURY GENERAL CORP	MCY
MERCURY SYSTEMS INC	MRCY	MOHAWK INDUSTRIES INC	MHK
MEREDITH CORP	MDP	MOLINA HEALTHCARE INC	MOH
MERIDIAN BANCORP INC	EBSB	MOLSON COORS BREWING CO	TAP
MERIDIAN BIOSCIENCE INC	VIVO	MOMENTA PHARMACEUTICALS	MNTA
MERIT MED SYSTEMS INC	MMSI	MONARCH CASINO & RESORT	MCRI
MERITAGE HOMES CORP	MTH	MONDELEZ INTERNATIONAL	MDLZ
MERITOR INC	MTOR	MONEYGRAM INTERNATIONAL	MGI
MERRIMACK PHARMACEUTICAL	MACK	MONMOUTH REAL ESTATE	MNR
MESA LABS INC	MLAB	MONOGRAM RESIDENTIAL TR	MORE
META FINANCIAL GROUP INC	CASH	MONOLITHIC POWER SYSTEMS	MPWR
METHODE ELECTRS INC	MEI	MONOTYPE IMAGING HLDG	TYPE
METLIFE INC	MET	MONRO MUFFLER BRAKE INC	MNRO
METTLER TOLEDO INTL INC	MTD	MONSANTO CO	MON
MFA FINANCIAL INC	MFA	MONSTER BEVERAGE CORP	MNST
MGE ENERGY INC	MGEE	MOODYS CORP	MCO
MGIC INVESTMENT CORP	MTG	MOOG INC	MOG.A
MGM RESORTS INTL	MGM	MORGAN STANLEY	MS
MGP INGREDIENTS INC	MGPI	MORNINGSTAR INC	MORN
MICHAEL KORS HLDGS LTD	KORS	MOSAIC COMPANY	MOS
MICHAELS COS INC/THE	MIK	MOTORCAR PTS AMERICA INC	MPAA
MICROCHIP TECHNOLOGY	MCHP	MOTOROLA SOLUTIONS INC	MSI
MICRON TECHNOLOGY INC	MU	MOVADO GROUP INC	MOV
MICROSEMI CORP	MSCC	MRC GLOBAL INC	MRC
MICROSOFT CORP	MSFT	MSA SAFETY INC	MSA
MICROSTRATEGY INC	MSTR	MSC INDL DIRECT INC	MSM
MICROVISION INC	MVIS	MSCI INC	MSCI
MID-AMER APT CMNTYS	MAA	MSG NETWORKS INC	MSGN
MIDDLEBY CORP	MIDD	MTGE INVESTMENT CORP	MTGE
MIDDLEFIELD BANC CORP	MBCN	MTS SYSTEMS CORP	MTSC
MIDDLESEX WATER CO	MSEX	MUELLER INDUSTRIES INC	MLI
MIDLAND STATES BANCORP	MSBI	MUELLER WTR PRODS INC	MWA

Membership list

Russell 3000® Index

Company	Ticker
MIDSOUTH BANCORP INC	MSL
MIDSTATES PETROLEUM CO	MPO
MIDWESTONE FINL GROUP	MOFG
MILACRON HOLDINGS CORP	MCRN
MILLER INDUSTRIES INC	MLR
MIMEDX GROUP INC	MDXG
MINDBODY INC	MB
MINERALS TECHNOLOGIES	MTX
MINERVA NEUROSCIENCES	NERV
MIRAGEN THERAPEUTICS	MGEN
MISTRAS GROUP INC	MG
MITEK SYS INC	MITK
MKS INSTRUMENTS INC	MKSI
MOBILE MINI INC	MINI
MOBILEIRON INC	MOBL
MODEL N INC	MODN
MODINE MANUFACTURING CO	MOD
MOELIS & CO	MC
NATERA INC	NTRA
NATHANS FAMOUS INC	NATH
NATIONAL BANK HOLDINGS	NBHC
NATIONAL BANKSHARES INC	NKSH
NATIONAL BEVERAGE CORP	FIZZ
NATIONAL CINEMEDIA INC	NCMI
NATIONAL COMM CORP	NCOM
NATIONAL FUEL GAS CO	NFG
NATIONAL GEN HLDGS CORP	NGHC
NATIONAL HEALTH INVS INC	NHI
NATIONAL HEALTHCARE CORP	NHC
NATIONAL INSTRS CORP	NATI
NATIONAL OILWELL VARCO	NOV
NATIONAL PRESTO INDS INC	NPK
NATIONAL RESEARCH CORP	NRCIA
NATIONAL RETAIL PPTY S	NNN
NATIONAL STORAGE AFFIL	NSA
NATIONAL WESTERN LIFE	NWLI
NATIONSTAR MTG HLDGS INC	NSM
NATURAL GAS SERVICES GRP	NGS
NATURAL GROCERS VITA CTG	NGVC
NATURAL HEALTH TRENDS CO	NHTC
NATURES SUNSHINE PRODS	NATR
NATUS MEDICAL INC	BABY
NAUTILUS INC	NLS
NAVIENT CORPORATION	NAVI
NAVIGANT CONSULTING INC	NCI
NAVIGATORS GROUP INC	NAVG
NAVIOS MARITIME ACQUIS	NNA
NAVIOS MARITIME HOLDINGS	NM

Company	Ticker
MULESOFT INC	MULE
MULTI COLOR CORP	LABL
MURPHY OIL CORP	MUR
MURPHY USA INC	MUSA
MUTUALFIRST FINL INC	MFSF
MYERS INDUSTRIES INC	MYE
MYLAN NV	MYL
MYOKARDIA INC	MYOK
MYR GROUP INC	MYRG
MYRIAD GENETICS INC	MYGN
NABORS INDUSTRIES LTD	NBR
NACCO INDUSTRIES INC	NC
NANOMETRICS INC	NANO
NANOSTRING TECH INC	NSTG
NANTHEALTH INC	NH
NANTKWEST INC	NK
NAPCO SEC TECHNOLOGIES	NSSC
NASDAQ INC	NDAQ
NEUSTAR INC	NSR
NEVRO CORP	NVRO
NEW HOME COMPANY INC	NWHM
NEW JERSEY RESOURCES	NJR
NEW MEDIA INVT GROUP INC	NEWM
NEW RELIC INC	NEWR
NEW RESIDENTIAL INVT	NRZ
NEW SR INVT GROUP INC	SNR
NEW YORK CMNTY BANCORP	NYCB
NEW YORK MTG TR INC	NYMT
NEW YORK TIMES CO	NYT
NEWELL BRANDS INC	NWL
NEWFIELD EXPLORATION CO	NFX
NEWLINK GENETICS CORP	NLNK
NEWMARKET CORPORATION	NEU
NEWMONT MINING CORP	NEM
NEWPARK RESOURCES INC	NR
NEWS CORP CL A	NWSA
NEWS CORP CL B	NWS
NEWSTAR FINANCIAL INC	NEWS
NEXEO SOLUTIONS INC	NXEO
NEXPOINT RESIDENTIAL TR	NXRT
NEXSTAR MEDIA GROUP INC	NXST
NEXTERA ENERGY INC	NEE
NI HOLDINGS INC	NODK
NIC INC	EGOV
NICOLET BANKSHARES INC	NCBS
NIELSEN HOLDINGS PLC	NLSN
NIKE INC	NKE
NISOURCE INC	NI

Membership list

Russell 3000® Index

Company	Ticker
NAVISTAR INTL CORP	NAV
NBT BANCORP INC	NBTB
NCI BUILDING SYSTEMS INC	NCS
NCI INC	NCIT
NCR CORP	NCR
NCS MULTISTAGE HOLD	NCSM
NEENAH PAPER INC	NP
NEFF CORP	NEFF
NEKTAR THERAPEUTICS	NKTR
NELNET INC	NNI
NEOGEN CORP	NEOG
NEOGENOMICS INC	NEO
NEOPHOTONICS CORP	NPTN
NEOS THERAPEUTICS INC	NEOS
NETAPP INC	NTAP
NETFLIX INC	NFLX
NETGEAR INC	NTGR
NETSCOUT SYSTEMS INC	NTCT
NEUROCRINE BIOSCIENCES	NBIX
NORTHWESTERN CORP	NWE
NORWEGIAN CRUISE LINE	NCLH
NORWOOD FINANCIAL CORP	NWFL
NOVANTA INC	NOVT
NOVAVAX INC	NVAX
NOVELION THERAPEUTICS	NVLN
NOVOCURE LTD	NVCR
NOW INC	DNOW
NRG ENERGY INC	NRG
NRG YIELD INC CL A	NYLD.A
NRG YIELD INC CL C	NYLD
NU SKIN ENTERPRISES	NUS
NUANCE COMMUNICATIONS	NUAN
NUCOR CORP	NUE
NUTANIX INC	NTNX
NUTRACEUTICAL INTL CORP	NUTR
NUTRI SYSTEM INC	NTRI
NUVASIVE INC	NUVA
NV5 GLOBAL INC	NVEE
NVE CORP	NVEC
NVIDIA CORP	NVDA
NVR INC	NVR
NXP SEMICONDUCTORS NV	NXPI
NXSTAGE MEDICAL INC	NXTM
NYMOX PHARMACEUTICAL	NYMX
O REILLY AUTOMOTIVE INC	ORLY
OASIS PETE INC	OAS
OBALON THERAPEUTICS INC	OBLN
OCCIDENTAL PETE CORP	OXY

Company	Ticker
NL INDUSTRIES INC	NL
NMI HLDGS INC	NMIH
NN INC	NNBR
NOBLE CORPORATION PLC	NE
NOBLE ENERGY INC	NBL
NOODLES & COMPANY	NDLS
NORDIC AMERICAN TANKER	NAT
NORDSON CORP	NDSN
NORDSTROM INC	JWN
NORFOLK SOUTHERN CORP	NSC
NORTHEAST BANCORP	NBN
NORTHERN TRUST CORP	NTRS
NORTHFIELD BANCORP INC	NFBK
NORTHRIM BANCORP INC	NRIM
NORTHROP GRUMMAN CORP	NOC
NORTHSTAR REALTY EUROPE	NRE
NORTHWEST BANCSHARES INC	NWBI
NORTHWEST NATURAL GAS CO	NWN
NORTHWEST PIPE CO	NWPX
OLLIES BARGAIN OUTLET	OLLI
OLYMPIC STEEL INC	ZEUS
OM ASSET MANAGEMENT	OMAM
OMEGA FLEX INC	OFLX
OMEGA HEALTHCARE INVS	OHF
OMEGA PROTEIN CORP	OME
OMEROS CORP	OMER
OMINTO INC	OMNT
OMNICELL INC	OMCL
OMNICOM GROUP INC	OMC
OMNOVA SOLUTIONS INC	OMN
ON ASSIGNMENT INC	ASGN
ON DECK CAPITAL INC	ONDK
ON SEMICONDUCTOR CORP	ON
ONCOCYTE CORPORATION	OCX
ONE GAS INC	OGS
ONE LIBERTY PROPERTIES	OLP
ONEBEACON INSURANCE GRP	OB
ONEMAIN HOLDINGS INC	OMF
ONEOK INC	OKE
OOMA INC	OOMA
OPKO HEALTH INC	OPK
OPPENHEIMER HOLDINGS INC	OPY
OPUS BK IRVINE CALIF	OPB
ORACLE CORP	ORCL
ORASURE TECHNOLOGIES INC	OSUR
ORBCOMM INC	ORBC
ORBITAL ATK INC	OA
ORCHID ISLAND CAPITAL	ORC

Membership list

Russell 3000® Index

Company	Ticker
OCEANEERING INTL INC	OII
OCEANFIRST FINANCIAL	OCFC
OCLARO INC	OCLR
OCONEE FEDERAL FINANCIAL	OFED
OCULAR THERAPEUTIX INC	OCUL
OCWEN FINANCIAL CORP	OCN
OFFICE DEPOT INC	ODP
OFG BANCORP	OFG
OGE ENERGY CORP	OGE
OHIO VY BANC CORP	OVBC
OIL DRI CORP OF AMERICA	ODC
OIL STATES INTERNATIONAL	OIS
OKTA INC	OKTA
OLD DOMINION FREIGHT	ODFL
OLD LINE BANCSHARES INC	OLBK
OLD NATIONAL BANCORP	ONB
OLD POINT FINL CORP	OPOF
OLD REPUBLIC INTL CORP	ORI
OLD SECOND BANCORP INC	OSBC
OLIN CORP	OLN
OXFORD INDUSTRIES INC	OXM
P C CONNECTION	CNXN
PACCAR INC	PCAR
PACIFIC BIOSCIENCES CA	PACB
PACIFIC CONTINENTAL CORP	PCBK
PACIFIC ETHANOL INC	PEIX
PACIFIC MERCANTILE BANCO	PMBC
PACIFIC PREMIER BANCORP	PPBI
PACIRA PHARMACEUTICALS	PCRX
PACKAGING CORP OF AMER	PKG
PACWEST BANCORP	PACW
PALO ALTO NETWORKS INC	PANW
PANDORA MEDIA INC	P
PANERA BREAD CO	PNRA
PANHANDLE OIL AND GAS	PHX
PAPA JOHNS INTERNATIONAL	PZZA
PAR PACIFIC HOLDINGS INC	PARR
PARAGON COMMERCIAL CORP	PBNC
PARAMOUNT GROUP INC	PGRE
PARATEK PHARMACEUTICALS	PRTK
PAREXEL INTERNATIONAL	PRXL
PARK CITY GROUP INC	PCYG
PARK ELECTROCHEMICAL	PKE
PARK HOTELS & RESORTS	PK
PARK NATIONAL CORP	PRK
PARK OHIO HOLDINGS CORP	PKOH
PARK STERLING CORP	PSTB
PARKE BANCORP INC	PKBK

Company	Ticker
ORCHIDS PAPER PRODS COMP	TIS
ORGANOVO HLDGS INC	ONVO
ORION GROUP HOLDINGS	ORN
ORITANI FINANCIAL CORP	ORIT
ORMAT TECHNOLOGIES INC	ORA
ORRSTOWN FINL SVCS INC	ORRF
ORTHOFIX INTL NV	OFIX
OSHKOSH CORP	OSK
OSI SYSTEMS INC	OSIS
OTONOMY INC	OTIC
OTTER TAIL CORP	OTTR
OUTFRONT MEDIA INC	OUT
OVERSEAS SHIPHOLDING INC	OSG
OVERSTOCK COM INC	OSTK
OVID THERAPEUTICS INC	OVID
OWENS & MINOR INC	OMI
OWENS CORNING	OC
OWENS ILLINOIS INC	OI
OWENS RLTY MTG INC	ORM
OXFORD IMMUNOTEC GLOBAL	OXFD
PEABODY ENERGY CORP	BTU
PEAPACK-GLADSTONE FINL	PGC
PEBBLEBROOK HOTEL TRUST	PEB
PEGASYSTEMS INC	PEGA
PENDRELL CORP	PCO
PENN NATIONAL GAMING INC	PENN
PENN VIRGINIA CORP	PVAC
PENNEY J C INC	JCP
PENNS WOODS BANCORP INC	PWOD
PENNSYLVANIA REAL ESTATE	PEI
PENNYMAC FINL SVCS INC	PFSI
PENNYMAC MORTGAGE INV	PMT
PENSKE AUTOMOTIVE GROUP	PAG
PENTAIR PLC	PNR
PENUMBRA INC	PEN
PEOPLES BANCORP INC	PEBO
PEOPLES BANCORP N C INC	PEBK
PEOPLES FINL SVCS CORP	PFIS
PEOPLES UNITED FINANCIAL	PBCT
PEOPLES UTAH BANCORP	PUB
PEPSICO INC	PEP
PERFICIENT INC	PRFT
PERFORMANCE FOOD GROUP	PFGC
PERKINELMER INC	PKI
PERRIGO CO PLC	PRGO
PETMED EXPRESS INC	PETS
PFIZER INC	PFE
PG&E CORP	PCG

Membership list

Russell 3000® Index

Company	Ticker
PARKER DRILLING CO	PKD
PARKER HANNIFIN CORP	PH
PARKWAY INC	PKY
PARSLEY ENERGY INC	PE
PARTY CITY HOLDCO INC	PRTY
PATHEON NV	PTHN
PATRICK INDS INC	PATK
PATTERN ENERGY GROUP INC	PEGI
PATTERSON COS INC	PDGO
PATTERSON UTI ENERGY	PTEN
PAYCHEX INC	PAYX
PAYCOM SOFTWARE INC	PAYC
PAYLOCITY HLDG CORP	PCTY
PAYPAL HOLDINGS INC	PYPL
PBF ENERGY INC	PBF
PCM INC	PCMI
PCSB FINANCIAL CORP	PCSB
PDC ENERGY INC	PDCE
PDF SOLUTIONS INC	PDFS
PDL BIOPHARMA INC	PDLI
PDVWIRELESS INC	PDVW
PITNEY BOWES INC	PBI
PIXELWORKS INC	PXLW
PJT PARTNERS INC	PJT
PLANET FITNESS INC	PLNT
PLANET PAYMENT INC	PLPM
PLANTRONICS INC	PLT
PLATFORM SPECIALTY PRODS	PAH
PLEXUS CORP	PLXS
PLUG POWER INC	PLUG
PLY GEM HLDGS INC	PGEM
PNC FINANCIAL SVCS GROUP	PNC
PNM RESOURCES INC	PNM
POLARIS INDUSTRIES INC	PII
POLYONE CORP	POL
POOL CORP	POOL
POPULAR INC	BPOP
PORTLAND GEN ELEC CO	POR
PORTOLA PHARMACEUTICALS	PTLA
POST HOLDINGS INC	POST
POTBELLY CORPORATION	PBPB
POTLATCH CORP	PCH
POWELL INDUSTRIES INC	POWL
POWER INTEGRATIONS INC	POWI
PPG INDUSTRIES INC	PPG
PPL CORP	PPL
PRA GROUP INC	PRAA
PRA HEALTH SCIENCES INC	PRAH

Company	Ticker
PGT INNOVATIONS INC	PGTI
PHARMERICA CORP	PMC
PHH CORPORATION	PHH
PHI INC	PHIIK
PHIBRO ANIMAL HEALTH	PAHC
PHILIP MORRIS INTL	PM
PHILLIPS 66	PSX
PHOTRONICS INC	PLAB
PHYSICIANS REALTY TRUST	DOC
PICO HOLDINGS INC	PICO
PIEDMONT OFFICE RLTY TR	PDM
PIER 1 IMPORTS INC	PIR
PIERIS PHARMACEUTICALS	PIRS
PILGRIMS PRIDE CORP	PPC
PINNACLE ENTERTAINMENT	PNK
PINNACLE FINANCIAL	PNFP
PINNACLE FOODS INC	PF
PINNACLE WEST CAPITAL CO	PNW
PIONEER ENERGY SERVICES	PES
PIONEER NAT RESOURCES CO	PXD
PIPER JAFFRAY COMPANIES	PJC
PROS HOLDINGS INC	PRO
PROSPERITY BANCSHARES	PB
PROTAGONIST THERAPEUTICS	PTGX
PROTHENA CORP PLC	PRTA
PROTO LABS INC	PRLB
PROVIDENCE SERVICE CORP	PRSC
PROVIDENT BANCORP INC	PVBC
PROVIDENT FINANCIAL SVCS	PFS
PROVIDENT FINL HLDGS INC	PROV
PRUDENTIAL BANCORP INC	PBIP
PRUDENTIAL FINANCIAL INC	PRU
PS BUSINESS PARKS INC	PSB
PTC INC	PTC
PTC THERAPEUTICS INC	PTCT
PUBLIC STORAGE INC	PSA
PUBLIC SVC ENTERPRISE	PEG
PULSE BIOSCIENCES INC	PLSE
PULTEGROUP INC	PHM
PUMA BIOTECHNOLOGY INC	PBYI
PURE STORAGE INC	PSTG
PURECYCLE CORP	PCYO
PVH CORP	PVH
PZENA INVESTMENT MGMT	PZN
Q2 HLDGS INC	QTWO
QAD INC	QADA
QCR HOLDINGS INC	QCRH
QEP RESOURCES INC	QEP

Membership list

Russell 3000® Index

Company	Ticker
PRAXAIR INC	PX
PREFERRED APT CMNTYS INC	APTS
PREFERRED BANK	PFBC
PREFORMED LINE PRODUCTS	PLPC
PREMIER FINL BANCORP INC	PFBI
PREMIER INC	PINC
PRESIDIO INC	PSDO
PRESTIGE BRANDS HOLDINGS	PBH
PRICE T ROWE GROUP INC	TROW
PRICESMART INC	PSMT
PRIMERICA INC	PRI
PRIMO WTR CORP	PRMW
PRIMORIS SVCS CORP	PRIM
PRINCIPAL FINANCIAL GRP	PFG
PROASSURANCE CORP	PRA
PROCTER & GAMBLE CO	PG
PROGENICS PHARMACEUTICAL	PGNX
PROGRESS SOFTWARE CORP	PRGS
PROGRESSIVE CORP	PGR
PROLOGIS INC	PLD
PROOFPOINT INC	PFPT
PROPETRO HOLDING CO	PUMP
RADIANT LOGISTICS INC	RLGT
RADISYS CORP	RSYS
RADIUS HEALTH INC	RDUS
RADNET INC	RDNT
RAIT FINANCIAL TRUST	RAS
RALPH LAUREN CORP	RL
RAMACO RESOURCES INC	METC
RAMBUS INC	RMBS
RAMCO-GERSHENSON PPTYS	RPT
RANGE RESOURCES CORP	RRC
RAPID7 INC	RPD
RAVEN INDUSTRIES INC	RAVN
RAYMOND JAMES FINANCIAL	RJF
RAYONIER ADV MATERIALS	RYAM
RAYONIER INC	RYN
RAYTHEON CO	RTN
RBC BEARINGS INC	ROLL
RCI HOSPITALITY HLDGS	RICK
RE/MAX HOLDINGS INC	RMAX
READING INTERNATIONAL	RDI
REALNETWORKS INC	RNWK
REALOGY HOLDINGS CORP	RLGY
REALPAGE INC	RP
REALTY INCOME CORP	O
REATE PHARMACEUTICALS	RETA
RECRO PHARMA INC	REPH

Company	Ticker
QIAGEN NV	QGEN
QORVO INC	QRVO
QTS REALTY TRUST INC	QTS
QUAD / GRAPHICS INC	QUAD
QUAKER CHEMICAL CORP	KWR
QUALCOMM INC	QCOM
QUALITY CARE PROPERTIES	QCP
QUALITY SYSTEMS INC	QSII
QUALYS INC	QLYS
QUANEX BUILDING PRODUCTS	NX
QUANTA SERVICES INC	PWR
QUANTENNA COMMUNICATIONS	QTNA
QUANTUM CORP	QTM
QUEST DIAGNOSTICS INC	DGX
QUIDEL CORP	QDEL
QUINSTREET INC	QNST
QUINTILES IMS HOLDINGS	Q
QUOTIENT LIMITED	QTNT
QUOTIENT TECHNOLOGY INC	QUOT
R1 RCM INC	RCM
RA PHARMACEUTICALS INC	RARX
RADIAN GROUP INC	RDN
REPUBLIC SERVICES INC	RSG
RESMED INC	RMD
RESOLUTE ENERGY CORP	REN
RESOURCE CAPITAL CORP	RSO
RESOURCES CONNECTION	REC�
RETAIL OPPORTUNITY INVTS	ROIC
RETAIL PPTYS AMER INC	RPAI
RETROPHIN INC	RTRX
REV GROUP INC	REVG
REVANCE THERAPEUTICS INC	RVNC
REVLON INC	REV
REVOLUTION LIGHTING TECH	RVLT
REX AMERICAN RESOURCES	REX
REXFORD INDUSTRIAL RLTY	REXR
REXNORD CORP	RXN
REYNOLDS AMERICAN INC	RAI
RGC RES INC	RGCO
RH	RH
RICE ENERGY INC	RICE
RIGEL PHARMACEUTICALS	RIGL
RIGHTSIDE GROUP LTD	NAME
RIGNET INC	RNET
RING ENERGY INC	REI
RINGCENTRAL INC	RNG
RITE AID CORP	RAD
RIVERVIEW BANCORP INC	RVSB

Membership list

Russell 3000® Index

Company	Ticker
RED HAT INC	RHT
RED LION HOTELS CORP	RLH
RED ROBIN GOURMET BURGER	RRGB
RED ROCKS RESORTS INC	RRR
REDWOOD TRUST INC	RWT
REGAL BELOIT CORP	RBC
REGAL ENTMT GROUP	RGC
REGENCY CENTERS CORP	REG
REGENERON PHARMACEUTICAL	REGN
REGENXBIO INC	RGNX
REGIONAL MGMT CORP	RM
REGIONS FINANCIAL CORP	RF
REGIS CORP	RGS
REINSURANCE GRP OF AMER	RGA
REIS INC	REIS
RELIANCE STEEL & ALUM	RS
RENAISSANCERE HOLDINGS	RNR
RENASANT CORP	RNST
RENEWABLE ENER GROUP INC	REGI
RENT A CENTER INC	RCII
REPLIGEN CORP	RGEN
REPUBLIC BANCORP INC KY	RBCAA
REPUBLIC FIRST BANCORP	FRBK
RUBICON PROJ INC	RUBI
RUBY TUESDAY INC	RT
RUDOLPH TECHNOLOGIES INC	RTEC
RUSH ENTERPRISES INC	RUSHA
RUSH ENTERPRISES INC	RUSHB
RUTH'S HOSPITALITY GROUP	RUTH
RYDER SYSTEM INC	R
RYERSON HOLDING CORP	RYI
RYMAN HOSPITALITY PPTYS	RHP
S & T BANCORP INC	STBA
S&P GLOBAL INC	SPGI
SABRA HEALTH CARE REIT	SBRA
SABRE CORP	SABR
SAFE BULKERS INC	SB
SAFEGUARD SCIENTIFICS	SFE
SAFETY INSURANCE GRP INC	SAFT
SAGA COMMUNICATIONS INC	SGA
SAGE THERAPEUTICS INC	SAGE
SAIA INC	SAIA
SALEM MEDIA GROUP INC	SALM
SALESFORCE COM INC	CRM
SALLY BEAUTY HOLDINGS	SBH
SANCHEZ ENERGY CORP	SN
SANDERSON FARMS INC	SAFM
SANDRIDGE ENERGY INC	SD

Company	Ticker
RLI CORP	RLI
RLJ LODGING TR	RLJ
RMR GROUP INC	RMR
ROADRUNNER TRNSN SVCS	RRTS
ROBERT HALF INTL INC	RHI
ROCKET FUEL INC	FUEL
ROCKWELL AUTOMATION INC	ROK
ROCKWELL COLLINS INC	COL
ROCKWELL MEDICAL INC	RMTI
ROGERS CORP	ROG
ROLLINS INC	ROL
ROPER TECHNOLOGIES INC	ROP
ROSEHILL RESOURCES INC	ROSE
ROSETTA STONE INC	RST
ROSS STORES INC	ROST
ROWAN COMPANIES PLC	RDC
ROYAL CARIBBEAN CRUISES	RCL
ROYAL GOLD INC	RGLD
RPC INC	RES
RPM INTERNATIONAL INC	RPM
RPX CORP	RPXC
RSP PERMIAN INC	RSP
RTI SURGICAL INC	RTIX
SCRIPPS E W CO	SSP
SCRIPPS NTKW INTERACTIVE	SNI
SEABOARD CORP	SEB
SEACOAST BANKING CORP FL	SBCF
SEACOR HOLDINGS INC	CKH
SEACOR MARINE HOLDINGS	SMHI
SEALED AIR CORP	SEE
SEARS HOLDINGS CORP	SHLD
SEATTLE GENETICS INC	SGEN
SEAWORLD ENTMT INC	SEAS
SECUREWORKS CORP	SCWX
SEI INVESTMENTS CO	SEIC
SELECT COMFORT CORP	SCSS
SELECT ENERGY SERVICES	WTRR
SELECT INCOME REIT	SIR
SELECT MEDICAL HOLDINGS	SEM
SELECTA BIOSCIENCES INC	SELB
SELECTIVE INSURANCE GRP	SIGI
SEMGROUP CORP	SEMG
SEMPRA ENERGY	SRE
SEMTECH CORP	SMTC
SENECA FOODS CORP	SENEA
SENIOR HOUSING PPTYS TR	SNH
SENSATA TECHNOLOGIES	ST
SENSIENT TECHNOLOGIES	SXT

Membership list

Russell 3000® Index

Company	Ticker
SANDY SPRING BANCORP	SASR
SANFILIPPO JOHN B & SON	JBSS
SANGAMO THERAPEUTICS INC	SGMO
SANMINA CORPORATION	SANM
SANTANDER CNSMR USA HLDG	SC
SAREPTA THERAPEUTICS INC	SRPT
SAUL CENTERS INC	BFS
SBA COMMUNICATIONS CORP	SBAC
SCANA CORP	SCG
SCANSOURCE INC	SCSC
SCHEIN HENRY INC	HSIC
SCHLUMBERGER LTD	SLB
SCHNEIDER NATIONAL INC	SNDR
SCHNITZER STEEL INDS	SCHN
SCHOLASTIC CORP	SCHL
SCHULMAN A INC	SHLM
SCHWAB CHARLES CORP	SCHW
SCHWEITZER-MAUDUIT INTL	SWM
SCICLONE PHARMACEUTICALS	SCLN
SCIENCE APPLICATIONS INT	SAIC
SCIENTIFIC GAMES CORP	SGMS
SCORPIO BULKERS INC	SALT
SCORPIO TANKERS INC	STNG
SCOTTS MIRACLE-GRO CO	SMG
SILGAN HOLDINGS INC	SLGN
SILICON LABORATORIES INC	SLAB
SILVER SPRING NETWORKS	SSNI
SILVERBOW RESOURCES	SBOW
SILVERCREST ASSET MNGMT	SAMG
SIMMONS FIRST NATIONAL	SFNC
SIMON PROPERTY GROUP INC	SPG
SIMPSON MANUFACTURING	SSD
SIMULATIONS PLUS INC	SLP
SINCLAIR BROADCAST GROUP	SBGI
SIRIUS XM HOLDINGS INC	SIRI
SITEONE LANDSCAPE SUPPLY	SITE
SIX FLAGS ENTMT CORP	SIX
SJW GROUP	SJW
SKECHERS USA INC	SKX
SKYWEST INC	SKYW
SKYWORKS SOLUTIONS INC	SWKS
SL GREEN REALTY CORP	SLG
SLM CORP	SLM
SM ENERGY CO	SM
SMART & FINAL STORES INC	SFS
SMART SAND INC	SND
SMARTFINANCIAL INC	SMBK
SMITH A O CORP	AOS

Company	Ticker
SEQUENTIAL BRANDS GROUP	SQBG
SERES THERAPEUTICS INC	MCRB
SERITAGE GROWTH PROP	SRG
SERVICE CORP INTL	SCI
SERVICEMASTER GLOBAL	SERV
SERVICENOW INC	NOW
SERVICESTOURCE INTL	SREV
SERVISFIRST BANCSHARES	SFBS
SHAKE SHACK INC	SHAK
SHENANDOAH TELECOMM CO	SHEN
SHERWIN WILLIAMS CO	SHW
SHILOH INDUSTRIES INC	SHLO
SHIP FINANCE INTL	SFL
SHOE CARNIVAL INC	SCVL
SHORE BANCSHARES INC	SHBI
SHORETEL INC	SHOR
SHUTTERFLY INC	SFLY
SHUTTERSTOCK INC	SSTK
SI FINANCIAL GROUP	SIFI
SIENRA INC	SIEN
SIERRA BANCORP	BSRR
SIGMA DESIGNS INC	SIGM
SIGNATURE BANK	SBNY
SIGNET JEWELERS LTD	SIG
SPARTANNASH COMPANY	SPTN
SPARTON CORP	SPA
SPECTRANETICS CORP	SPNC
SPECTRUM BRANDS HOLDINGS	SPB
SPECTRUM PHARMACEUTICALS	SPPI
SPEEDWAY MOTORSPORTS INC	TRK
SPIRE INC	SR
SPIRIT AEROSYSTEMS	SPR
SPIRIT AIRLS INC	SAVE
SPIRIT RLTY CAP INC	SRC
SPLUNK INC	SPLK
SPOK HOLDINGS INC	SPOK
SPORTSMANS WHSE HLDGS	SPWH
SPRINT CORP	S
SPROUTS FRMRS MKT INC	SFM
SPS COMM INC	SPSC
SPX CORP	SPXC
SPX FLOW INC	FLOW
SQUARE INC	SQ
SRC ENERGY INC	SRCI
SS&C TECHNOLOGIES HLDGS	SSNC
ST JOE CO	JOE
STAAR SURGICAL CO	STAA
STAG INDL INC	STAG

Membership list

Russell 3000® Index

Company	Ticker
SMUCKER J M CO	SJM
SNAP ON INC	SNA
SNYDER'S-LANCE INC	LNCE
SOLARIS OILFIELD	SOI
SONIC AUTOMOTIVE INC	SAH
SONIC CORP	SONC
SONOCO PRODUCTS CO	SON
SONUS NETWORKS INC	SONS
SOTHEBYS	BID
SOUTH JERSEY INDUSTRIES	SJI
SOUTH STATE CORPORATION	SSB
SOUTHERN CO	SO
SOUTHERN COPPER CORP	SCCO
SOUTHERN FIRST BANCSHARE	SFST
SOUTHERN MO BANCORP INC	SMBC
SOUTHERN NATL BANCORP	SONA
SOUTHSIDE BANCSHARES INC	SBSI
SOUTHWEST AIRLINES CO	LUV
SOUTHWEST BANCORP INC OK	OKSB
SOUTHWEST GAS HOLDINGS	SWX
SOUTHWESTERN ENERGY CO	SWN
SP PLUS CORPORATION	SP
SPARK ENERGY INC	SPKE
SPARK THERAPEUTICS INC	ONCE
SPARTAN MOTORS INC	SPAR
STONERIDGE INC	SRI
STORE CAPITAL CORP	STOR
STRAIGHT PATH COMM INC	STRP
STRATASYS LTD	SSYS
STRATUS PPTYS INC	STRS
STRAYER EDUCATION INC	STRA
STRONGBRIDGE BIOPHARMA	SBBP
STRYKER CORP	SYK
STURM RUGER & CO INC	RGR
SUCAMPO PHARMA	SCMP
SUMMIT FINANCIAL GROUP	SMMF
SUMMIT HOTEL PPTYS	INN
SUMMIT MATLS INC	SUM
SUN BANCORP INC NJ	SNBC
SUN COMMUNITIES INC	SUI
SUN HYDRAULICS CORP	SNHY
SUNCOKE ENERGY INC	SXC
SUNPOWER CORP	SPWR
SUNRUN INC	RUN
SUNSHINE BANCORP INC	SBCP
SUNSTONE HOTEL INVS INC	SHO
SUNTRUST BANKS INC	STI
SUPER MICRO COMPUTER INC	SMCI

Company	Ticker
STAMPS COM INC	STMP
STANDARD MOTOR PRODUCTS	SMP
STANDEX INTERNATIONAL	SXI
STANLEY BLACK & DECKER	SWK
STAPLES INC	SPLS
STARBUCKS CORP	SBUX
STARTEK INC	SRT
STARWOOD PPTY TRUST INC	STWD
STATE AUTO FINANCIAL	STFC
STATE BK FINL CORP	STBZ
STATE NATIONAL COMPANIES	SNC
STATE STREET CORP	STT
STEEL DYNAMICS INC	STLD
STEELCASE INC	SCS
STEMLINE THERAPEUTICS	STML
STEPAN CO	SCL
STERICYCLE INC	SRCL
STERIS PLC	STE
STERLING BANCORP	STL
STERLING CONSTRUCTION CO	STRL
STEWART INFORMATION	STC
STIFEL FINANCIAL CORP	SF
STOCK YARDS BANCORP INC	SYBT
STONE ENERGY CORP	SGY
STONEGATE BANK	SGBK
TABLEAU SOFTWARE INC	DATA
TABULA RASA HEALTHCARE	TRHC
TACTILE SYSTEMS TECH	TCMD
TAHOE RES INC	TAHO
TAILORED BRANDS INC	TLRD
TAKE-TWO INTERACTIVE	TTWO
TANGER FACTORY OUTLET	SKT
TARGA RESOURCES INC	TRGP
TARGET CORP	TGT
TAUBMAN CENTERS INC	TCO
TAYLOR MORRISON HOME	TMHC
TCF FINANCIAL CORP	TCF
TD AMERITRADE HOLDING	AMTD
TEAM INC	TISI
TECH DATA CORP	TECD
TECHTARGET INC	TTGT
TEEKAY CORP	TK
TEEKAY TANKERS LTD	TNK
TEGNA INC	TGNA
TEJON RANCH CO	TRC
TELADOC INC	TDOC
TELEDYNE TECHNOLOGIES	TDY
TELEFLEX INC	TFX

Membership list

Russell 3000® Index

Company	Ticker
SUPERIOR ENERGY SERVICES	SPN
SUPERIOR INDUSTRIES INTL	SUP
SUPERIOR UNIFORM GROUP	SGC
SUPERNUS PHARMACEUTICALS	SUPN
SUPERVALU INC	SVU
SUPREME INDS INC	STS
SURGERY PARTNERS INC	SGRY
SURMODICS INC	SRDX
SUTHERLAND ASSET MGMT	SLD
SVB FINANCIAL GROUP	SIVB
SWIFT TRANSN CO	SWFT
SYKES ENTERPRISES INC	SYKE
SYMANTEC CORP	SYMC
SYNAPTICS INC	SYNA
SYNCHRONOSS TECHNOLOGY	SNCR
SYNCHRONY FINANCIAL	SYF
SYNDAX PHARMACEUTICALS	SNDX
SYNERGY PHARMACEUTICALS	SGYP
SYNNEX CORP	SNX
SYNOPSIS INC	SNPS
SYNOVUS FINANCIAL CORP	SNV
SYNTEL INC	SYNT
SYROS PHARMACEUTICALS	SYRS
SYSCO CORP	SY
SYSTEMAX INC	SYX
TEXTAINER GROUP HLDGS	TGH
TEXTRON INC	TXT
TFS FINL CORP	TFSL
TG THERAPEUTICS INC	TGTX
THE CHEMOURS COMPANY	CC
THE CONTAINER STORE GRP	TCS
THE KRAFT HEINZ COMPANY	KHC
THE MEET GROUP	MEET
THE PRICELINE GROUP INC	PCLN
THE TRADE DESK INC	TTD
THE WENDY'S COMPANY	WEN
THERAPEUTICSMD INC	TXMD
THERAVANCE BIOPHARMA INC	TBPH
THERMO FISHER SCIENTIFIC	TMO
THERMON GROUP HLDGS INC	THR
THIRD POINT REINSURANCE	TPRE
THOR INDUSTRIES INC	THO
TIER REIT INC	TIER
TIFFANY & CO	TIF
TILE SHOP HLDGS INC	TTS
TILLYS INC	TLYS
TIMBERLAND BANCORP INC	TSBK
TIME INC	TIME

Company	Ticker
TELENAV INC	TNAV
TELEPHONE & DATA SYSTEMS	TDS
TELETECH HOLDINGS INC	TTEC
TELIGENT INC	TLGT
TELLURIAN INC	TELL
TEMPUR SEALY INTL INC	TPX
TENET HEALTHCARE CORP	THC
TENNANT CO	TNC
TENNECO INC	TEN
TERADATA CORP	TDC
TERADYNE INC	TER
TEREX CORP	TEX
TERRAFORM GLOBAL INC	GLBL
TERRAFORM POWER INC	TERP
TERRENO REALTY CORP	TRNO
TERRITORIAL BANCORP INC	TBNK
TESARO INC	TSRO
TESCO CORP	TESO
TESLA INC	TSLA
TESORO CORP	TSO
TETRA TECH INC	TTEK
TETRA TECHNOLOGIES INC	TTI
TETRAPHASE PHARMA INC	TTPH
TEXAS CAPITAL BANCSHARES	TCBI
TEXAS INSTRUMENTS INC	TXN
TEXAS ROADHOUSE INC	TXRH
TRAVELERS COS INC	TRV
TRAVELPORT WORLDWIDE LTD	TVPT
TRECORA RESOURCES	TREC
TREDEGAR CORP	TG
TREEHOUSE FOODS INC	THS
TREVENA INC	TRVN
TREX INC	TREX
TRI POINTE GROUP INC	TPH
TRIBUNE MEDIA CO	TRCO
TRICO BANCSHARES	TCBK
TRIMAS CORP	TRS
TRIMBLE INC	TRMB
TRINET GROUP INC	TNET
TRINITY INDUSTRIES INC	TRN
TRINITY PLACE HOLDINGS	TPHS
TRINSEO SA	TSE
TRIPADVISOR INC	TRIP
TRIPLE-S MANAGEMENT CORP	GTS
TRISTATE CAP HLDGS INC	TSC
TRITON INTERNATIONAL LTD	TRTN
TRIUMPH BANCORP INC	TBK
TRIUMPH GROUP INC	TGI

Membership list

Russell 3000® Index

Company	Ticker
TIME WARNER INC	TWX
TIMKEN CO	TKR
TIMKENSTEEL CORPORATION	TMST
TIPTREE INC	TIPT
TITAN INTERNATIONAL INC	TWI
TITAN MACHINERY INC	TITN
TIVITY HEALTH INC	TVTY
TIVO CORPORATION	TIVO
TJX COMPANIES INC	TJX
T-MOBILE US INC	TMUS
TOCAGEN INC	TOCA
TOLL BROTHERS INC	TOL
TOMPKINS FINANCIAL CORP	TMP
TOOTSIE ROLL INDUSTRIES	TR
TOPBUILD CORP	BLD
TORCHMARK CORP	TMK
TORO CO	TTC
TOTAL SYSTEM SERVICES	TSS
TOWER INTERNATIONAL INC	TOWR
TOWNEBANK PORTSMOUTH VA	TOWN
TOWNSQUARE MEDIA INC	TSQ
TPI COMPOSITES INC	TPIC
TRACTOR SUPPLY CO	TSCO
TRANSCONTINENTAL REALTY	TCI
TRANSDIGM GROUP INC	TDG
TRANSOCEAN LTD	RIG
TRANSUNION	TRU
UGI CORP	UGI
ULTA BEAUTY INC	ULTA
ULTIMATE SOFTWARE GROUP	ULTI
ULTRA CLEAN HOLDINGS INC	UCTT
ULTRA PETROLEUM CORP	UPL
ULTRAGENYX PHARMA	RARE
UMB FINANCIAL CORP	UMBF
UMH PROPERTIES INC	UMH
UMPQUA HOLDINGS CORP	UMPQ
UNDER ARMOUR CLASS A	UAA
UNDER ARMOUR CLASS C	UA
UNIFI INC	UFI
UNIFIRST CORP MASS	UNF
UNION BANKSHARES CORP	UBSH
UNION BANKSHARES INC	UNB
UNION PACIFIC CORP	UNP
UNISYS CORP	UIS
UNIT CORP	UNT
UNITED BANKSHARES INC	UBSI
UNITED CMNTY FINL CO	UCFC
UNITED COMMUNITY BANKS	UCBI

Company	Ticker
TRONC INC	TRNC
TRONOX LTD	TROX
TRUEBLUE INC	TBI
TRUECAR INC	TRUE
TRUPANION INC	TRUP
TRUSTCO BANK CORP NY	TRST
TRUSTMARK CORP	TRMK
TTM TECHNOLOGIES INC	TTMI
TUCOWS INC	TCX
TUPPERWARE BRANDS CORP	TUP
TURNING POINT BRANDS INC	TPB
TUTOR PERINI CORP	TPC
TWILIO INC	TWLO
TWIN DISC INC	TWIN
TWITTER INC	TWTR
TWO HBRS INVT CORP	TWO
TWO RIVER BANCORP	TRCB
TYLER TECHNOLOGIES INC	TYL
TYSON FOODS INC	TSN
U S CONCRETE INC	USCR
U S G CORP	USG
U S PHYSICAL THERAPY INC	USPH
U S SILICA HLDGS INC	SLCA
UBIQUITI NETWORKS INC	UBNT
UCP INC	UCP
UDR INC	UDR
UFP TECHNOLOGIES INC	UFPT
UPLAND SOFTWARE INC	UPLD
URANIUM ENERGY CORP	UEC
URBAN EDGE PROPERTIES	UE
URBAN OUTFITTERS INC	URBN
URSTADT BIDDLE PPTYS INS	UBA
US BANCORP	USB
US ECOLOGY INC	ECOL
US FOODS HOLDING CORP	USFD
USA TECHNOLOGIES INC	USAT
USANA HEALTH SCIENCES	USNA
UTAH MED PRODS INC	UTMD
V F CORP	VFC
VAIL RESORTS INC	MTN
VALERO ENERGY CORP	VLO
VALHI INC	VHI
VALIDUS HOLDINGS LTD	VR
VALLEY NATIONAL BANCORP	VLV
VALMONT INDUSTRIES INC	VMI
VALUE LINE INC	VALU
VALVOLINE INC	VVV
VANDA PHARMACEUTICALS	VNDA

Membership list

Russell 3000® Index

Company	Ticker	Company	Ticker
UNITED CONTINENTAL HLDGS	UAL	VANTIV INC	VNTV
UNITED FINANCIAL BANCORP	UBNK	VAREX IMAGING	VREX
UNITED FIRE GROUP INC	UFCS	VARIAN MEDICAL SYSTEMS	VAR
UNITED INS HLDGS CORP	UIHC	VARONIS SYSTEMS INC	VRNS
UNITED NATURAL FOODS INC	UNFI	VASCO DATA SECURITY INTL	VDSI
UNITED PARCEL SERVICE	UPS	VBI VACCINES INC	VBIV
UNITED RENTALS INC	URI	VCA INC	WOOF
UNITED SECURITY BANC	UBFO	VECTOR GROUP LTD	VGR
UNITED STATES CELLULAR	USM	VECTREN CORP	VVC
UNITED STATES LIME & MIN	USLM	VECTRUS INC	VEC
UNITED STATES STEEL CORP	X	VEECO INSTRUMENTS INC	VECO
UNITED TECHNOLOGIES	UTX	VEEVA SYSTEMS INC	VEEV
UNITED THERAPEUTICS	UTHR	VENTAS INC	VTR
UNITEDHEALTH GROUP INC	UNH	VERA BRADLEY INC	VRA
UNITI GROUP INC	UNIT	VERACYTE INC	VCYT
UNITIL CORP	UTL	VEREIT INC	VER
UNITY BANCORP INC	UNTY	VERIFONE SYSTEMS INC	PAY
UNIVAR INC	UNVR	VERINT SYS INC	VRNT
UNIVERSAL CORP	UVV	VERISIGN INC	VRSN
UNIVERSAL DISPLAY CORP	OLED	VERISK ANALYTICS INC	VRSK
UNIVERSAL ELECTRONICS	UEIC	VERITEX HOLDINGS	VBTX
UNIVERSAL FOREST PRODS	UFPI	VERITIV CORPORATION	VRTV
UNIVERSAL HEALTH REALTY	UHT	VERITONE INC	VERI
UNIVERSAL HEALTH SVCS	UHS	VERIZON COMMUNICATIONS	VZ
UNIVERSAL INSURANCE	UVE	VERSARTIS INC	VSAR
UNIVERSAL LOGISTICS HLDG	ULH	VERSO CORPORATION	VRS
UNIVEST CORP OF PENN	UVSP	VERSUM MATERIALS	VSM
UNUM GROUP	UNM	VERTEX PHARMACEUTICALS	VRTX
VIACOM INC CL A	VIA	WATERS CORP	WAT
VIACOM INC CL B	VIAB	WATERSTONE FINANCIAL INC	WSBF
VIAD CORP	VVI	WATSCO INC	WSO
VIASAT INC	VSAT	WATTS WATER TECH INC	WTS
VIAVI SOLUTIONS INC	VIAV	WAVE LIFE SCIENCES LTD	WVE
VICOR CORP	VICR	WAYFAIR INC	W
VIEWRAY INC	VRAY	WD-40 CO	WDFC
VILLAGE SUPER MARKET INC	VLGEA	WEATHERFORD INTL PLC	WFT
VIRNETX HOLDING CORP	VHC	WEB.COM GROUP INC	WEB
VIRTU FINL INC	VIRT	WEBMD HEALTH CORP	WBMD
VIRTUS INVESTMENT PTNRS	VRTS	WEBSTER FINANCIAL CORP	WBS
VIRTUSA CORP	VRTU	WEC ENERGY GROUP INC	WEC
VISA INC	V	WEIGHT WATCHERS INTL INC	WTW
VISHAY INTERTECHNOLOGY	VSH	WEINGARTEN RLTY INVS	WRI
VISHAY PRECISION GROUP	VPG	WEIS MARKETS INC	WMK
VISTA OUTDOOR INC	VSTO	WELBILT	WBT
VISTEON CORP	VC	WELLCARE GROUP INC	WCG
VISTRA ENERGY CORP	VST	WELLS FARGO & CO	WFC
VITAMIN SHOPPE INC	VSI	WELLTOWER INC	HCN
VIVEVE MEDICAL INC	VIVE	WERNER ENTERPRISES INC	WERN

Membership list

Russell 3000® Index

Company	Ticker
VIVINT SOLAR INC	VSLR
VMWARE INC	VMW
VOCERA COMMUNICATIONS	VCRA
VONAGE HLDGS CORP	VG
VORNADO REALTY TRUST	VNO
VOXX INTERNATIONAL CORP	VOXX
VOYA FINANCIAL INC	VOYA
VOYAGER THERAPEUTICS INC	VYGR
VSE CORP	VSEC
VTV THERAPEUTICS INC	VTVT
VULCAN MATERIALS CO	VMC
VWR CORPORATION	VWR
W P CAREY INC	WPC
W&T OFFSHORE INC	WTI
WABASH NATIONAL CORP	WNC
WABCO HOLDINGS INC	WBC
WABTEC CORP	WAB
WADDELL & REED FINANCIAL	WDR
WAGWORKS INC	WAGE
WAL MART STORES INC	WMT
WALGREENS BOOTS ALLIANCE	WBA
WALKER & DUNLOP INC	WD
WARRIOR MET COAL INC	HCC
WASHINGTON FED INC	WAFD
WASHINGTON PRIME GROUP	WPG
WASHINGTON REAL ESTATE	WRE
WASHINGTON TRUST BANCORP	WASH
WASHINGTONFIRST BANK INC	WFBI
WASTE MGMT INC	WM
WILLBROS GROUP INC	WG
WILLDAN GROUP INC	WLDN
WILLIAM LYON HOMES	WLH
WILLIAMS COMPANIES INC	WMB
WILLIAMS SONOMA INC	WSM
WILLIS LEASE FINANCE	WLFC
WILLIS TOWERS WATSON PLC	WLTW
WINDSTREAM HOLDINGS INC	WIN
WINGSTOP INC	WING
WINMARK CORP	WINA
WINNEBAGO INDUSTRIES INC	WGO
WINS FINANCE HOLDINGS	WINS
WINTRUST FINANCIAL CORP	WTFC
WISDOMTREE INVTS INC	WETF
WMIH CORP	WMIH
WOLVERINE WORLD WIDE	WWW
WOODWARD INC	WWD
WORKDAY INC	WDAY
WORKIVA INC	WK

Company	Ticker
WESBANCO INC	WSBC
WESCO AIRCRAFT HLDGS INC	WAIR
WESCO INTERNATIONAL INC	WCC
WEST BANCORPORATION INC	WTBA
WEST CORP	WSTC
WEST MARINE INC	WMAR
WEST PHARMACEUTICAL SVCS	WST
WESTAMERICA BANCORP	WABC
WESTAR ENERGY INC	WR
WESTERN ALLIANCE BANCORP	WAL
WESTERN ASSET MTG CAP	WMC
WESTERN DIGITAL CORP	WDC
WESTERN NEW ENGLAND	WNEB
WESTERN UNION CO	WU
WESTLAKE CHEMICAL CORP	WLK
WESTMORELAND COAL CO	WLB
WESTROCK CO	WRK
WESTWOOD HOLDINGS GROUP	WHG
WEX INC	WEX
WEYCO GROUP INC	WEYS
WEYERHAEUSER CO	WY
WGL HOLDINGS INC	WGL
WHIRLPOOL CORP	WHR
WHITE MTNS INS GROUP LTD	WTM
WHITESTONE REIT	WSR
WHITING PETROLEUM CORP	WLL
WHOLE FOODS MARKET INC	WFM
WILDHORSE RESOURCE DEV	WRD
WILEY JOHN & SONS INC	JW.A
ZAYO GROUP HOLDINGS INC	ZAYO
ZEBRA TECHNOLOGIES CORP	ZBRA
ZENDESK INC	ZEN
ZILLOW GROUP INC CLASS A	ZG
ZILLOW GROUP INC CLASS C	Z
ZIMMER BIOMET HOLDINGS	ZBH
ZIONS BANCORPORATION	ZION
ZIOPHARM ONCOLOGY INC	ZIOP
ZIX CORP	ZIXI
ZOES KITCHEN INC	ZOES
ZOETIS INC	ZTS
ZOGENIX INC	ZGNX
ZUMIEZ INC	ZUMZ
ZYNERBA PHARMACEUTICALS	ZYNE
ZYNKA INC	ZNGA

Membership list

Russell 3000® Index

Company	Ticker
WORLD ACCEPTANCE CORP	WRLD
WORLD FUEL SVCS CORP	INT
WORLD WRESTLING ENTMNT	WWE
WORTHINGTON INDUSTRIES	WOR
WPX ENERGY INC	WPX
WRIGHT MEDICAL GROUP N V	WMGI
WSFS FINANCIAL CORP	WSFS
WYNDHAM WORLDWIDE CORP	WYN
WYNN RESORTS LTD	WYNN
XACTLY CORP	XTLY
XBIOTECH INC	XBIT
XCEL ENERGY INC	XEL
XCERRA CORPORATION	XCRA
XENCOR INC	XNCR
XENIA HOTELS & RESORTS	XHR
XENITH BANKSHARES INC	XBKS
XEROX CORP	XRX
XILINX INC	XLNX
XL GROUP LTD	XL
XO GROUP INC	XOXO
XPERI CORPORATION	XPER
XPO LOGISTICS INC	XPO
XYLEM INC	XYL
YELP INC	YELP
YEXT INC	YEXT
YORK WATER COMPANY	YORW
YRC WORLDWIDE INC	YRCW
YUM CHINA HOLDINGS INC	YUMC
YUM! BRANDS INC	YUM
ZAGG INC	ZAGG



Membership list

For more information about our indexes, please visit ftserussell.com.

© 2017 London Stock Exchange Group plc and its applicable group undertakings (the "LSE Group"). The LSE Group includes (1) FTSE International Limited ("FTSE"), (2) Frank Russell Company ("Russell"), (3) FTSE TMX Global Debt Capital Markets Inc. and FTSE TMX Global Debt Capital Markets Limited (together, "FTSE TMX") and (4) MTSNext Limited ("MTSNext"). All rights reserved.

FTSE Russell® is a trading name of FTSE, Russell, FTSE TMX and MTS Next Limited. "FTSE®", "Russell®", "FTSE Russell®" "MTS®", "FTSE TMX®", "FTSE4Good®" and "ICB®" and all other trademarks and service marks used herein (whether registered or unregistered) are trade marks and/or service marks owned or licensed by the applicable member of the LSE Group or their respective licensors and are owned, or used under licence, by FTSE, Russell, MTSNext, or FTSE TMX.

All information is provided for information purposes only. Every effort is made to ensure that all information given in this publication is accurate, but no responsibility or liability can be accepted by any member of the LSE Group nor their respective directors, officers, employees, partners or licensors for any errors or for any loss from use of this publication or any of the information or data contained herein.

No member of the LSE Group nor their respective directors, officers, employees, partners or licensors make any claim, prediction, warranty or representation whatsoever, expressly or impliedly, either as to the results to be obtained from the use of the FTSE Russell Indexes or the fitness or suitability of the Indexes for any particular purpose to which they might be put.

No member of the LSE Group nor their respective directors, officers, employees, partners or licensors provide investment advice and nothing in this document should be taken as constituting financial or investment advice. No member of the LSE Group nor their respective directors, officers, employees, partners or licensors make any representation regarding the advisability of investing in any asset. A decision to invest in any such asset should not be made in reliance on any information herein. Indexes cannot be invested in directly. Inclusion of an asset in an index is not a recommendation to buy, sell or hold that asset. The general information contained in this publication should not be acted upon without obtaining specific legal, tax, and investment advice from a licensed professional.

No part of this information may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without prior written permission of the applicable member of the LSE Group. Use and distribution of the LSE Group index data and the use of their data to create financial products require a licence from FTSE, Russell, FTSE TMX, MTSNext and/or their respective licensors.

Past performance is no guarantee of future results. Charts and graphs are provided for illustrative purposes only. Index returns shown may not represent the results of the actual trading of investable assets. Certain returns shown may reflect back-tested performance. All performance presented prior to the index inception date is back-tested performance. Back-tested performance is not actual performance, but is hypothetical. The back-test calculations are based on the same methodology that was in effect when the index was officially launched. However, back-tested data may reflect the application of the index methodology with the benefit of hindsight, and the historic calculations of an index may change from month to month based on revisions to the underlying economic data used in the calculation of the index.