

# Membership list

## Russell 3000® Index

Company	Ticker
10X GENOMICS	TXG
1-800-FLOWERS.COM CL A	FLWS
1LIFE HEALTHCARE	ONEM
1ST SOURCE	SRCE
22ND CENTURY GROUP INC.	XXII
2U	TWOU
3-D SYSTEMS	DDD
3M COMPANY	MMM
4D MOLECULAR THERAPEUTICS	FDMT
89BIO	ETNB
8X8	EGHT
9 METERS BIOPHARMA INC	NMTR
908 DEVICES	MASS
A10 NETWORKS	ATEN
AAON INC	AAON
AAR CORP	AIR
ABBOTT LABORATORIES	ABT
ABBVIE INC	ABBV
ABERCROMBIE & FITCH A	ANF
ABIOMED INC	ABMD
ABM INDUSTRIES INC	ABM
ACACIA RESEARCH - ACACIA TECHNOLOGIES	ACTG
ACADEMY SPORTS AND OUTDOORS	ASO
ACADIA HEALTHCARE	ACHC
ACADIA PHARMACEUTICALS	ACAD
ACADIA REALTY	AKR
ACCEL ENTERTAINMENT (A)	ACEL
ACCELERATE DIAGNOSTICS	AXDX
ACCELERON PHARMA INC	XLRN
ACCENTURE CL A	ACN
ACCO BRANDS	ACCO
ACCOLADE	ACCD
ACCRETIVE HEALTH	RCM
ACCURAY	ARRAY
ACI WORLDWIDE	ACIW
ACLARIS THERAPEUTICS	ACRS
ACTIVISION BLIZZARD	ATVI
ACUITY BRANDS INC	AYI
ACUSHNET HOLDINGS	GOLF
ACUTUS MEDICAL	AFIB
ADAPTHEALTH	AHCO
ADAPTIVE BIOTECHNOLOGIES	ADPT
ADDUS HOMECARE	ADUS
ADICET BIO INC	ACET
ADIENT PLC	ADNT
ADOBE	ADBE
ADT INC	ADT
ADTALEM GLOBAL EDUCATION	ATGE

Company	Ticker
ADTRAN INC	ADTN
ADVANCE AUTO PARTS	AAP
ADVANCED DRAINAGE SYSTEMS	WMS
ADVANCED ENERGY INDUSTRIES	AEIS
ADVANCED MICRO DEV	AMD
ADVANSIX	ASIX
ADVANTAGE SOLUTIONS INC (A)	ADV
ADVENT TECHNOLOGIES HOLDINGS INC (A)	ADN
ADVERUM BIOTECHNOLOGIES	ADVM
AECOM	ACM
AEGLEA BIOTHERAPEUTICS	AGLE
AEMETIS	AMTX
AERIE PHARMACEUTICALS INC	AERI
AEROJET ROCKETDYNE HOLDINGS	AJRD
AEROVIRONMENT	AVAV
AERSALE CORPORATION	ASLE
AES CORP.	AES
AEVA TECHNOLOGIES INC	AEVA
AFC GAMMA	AFCG
AFFILIATED MANAGERS GROUP	AMG
AFFIMED N.V.	AFMD
AFLAC	AFL
AGCO CORP	AGCO
AGEAGLE AERIAL SYSTEMS	UAVS
AGENUS	AGEN
AGILENT TECHNOLOGIES	A
AGILITI	AGTI
AGILON HEALTH	AGL
AGILYSYS	AGYS
AGIOS PHARMACEUTICALS	AGIO
AGNC INVESTMENT	AGNC
AGREE REALTY	ADC
AIR LEASE	AL
AIR PRODUCTS & CHEMICALS INC	APD
AIR TRANSPORT SERVICES GROUP	ATSG
AKAMAI TECHNOLOGIES	AKAM
AKEBIA THERAPEUTICS	AKBA
AKERO THERAPEUTICS	AKRO
AKOIOS	AKUS
AKOUSTIS TECHNOLOGIES INC	AKTS
AKOYA BIOSCIENCES	AKYA
ALAMO GROUP	ALG
ALARM.COM HOLDINGS	ALRM
ALASKA AIR GROUP	ALK
ALBANY INTERNATIONAL A	AIN
ALBEMARLE	ALB
ALBERTSONS COMPANIES	ACI
ALBIREO PHARMA	ALBO

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Company	Ticker
ALCOA CORPORATION	AA
ALDEYRA THERAPEUTICS	ALDX
ALECTOR	ALEC
ALERUS FINANCIAL CORP.	ALRS
ALEXANDER & BALDWIN INC.	ALEX
ALEXANDERS INC	ALX
ALEXANDRIA REAL ESTATE EQUITY	ARE
ALEXION PHARM	ALXN
ALIGN TECHNOLOGY INC	ALGN
ALIGNMENT HEALTHCARE	ALHC
ALIGOS THERAPEUTICS	ALGS
ALKAMI TECHNOLOGY	ALKT
ALKERMES PLC	ALKS
ALLAKOS	ALLK
ALLEGHANY	Y
ALLEGHENY TECHNOLOGIES	ATI
ALLEGIANCE BANCSHARES	ABTX
ALLEGIAN TRAVEL	ALGT
ALLEGION PLC	ALLE
ALLEGRO MICROSYSTEMS	ALGM
ALLETE	ALE
ALLIANCE DATA SYSTEMS CORP	ADS
ALLIANT ENERGY	LNT
ALLIED MOTION TECHNOLOGIES	AMOT
ALLISON TRANSMISSION HOLDINGS	ALSN
ALLOGENE THERAPEUTICS	ALLO
ALLOVIR	ALVR
ALLSCRIPTS HEALTHCARE SOLUTIONS	MDRX
ALLSTATE CORP	ALL
ALLY FINANCIAL	ALLY
ALNYLAM PHARMACEUTICALS	ALNY
ALPHA & OMEGA SEMICONDUCTOR	AOSL
ALPHABET CLASS A	GOOGL
ALPHABET CLASS C	GOOG
ALPHATEC HOLDINGS INC.	ATEC
ALPINE IMMUNE SCIENCES	ALPN
ALTA EQUIPMENT GROUP INC (A)	ALTG
ALTABANCORP	ALTA
ALTAIR ENGINEERING	ALTR
ALTERYX	AYX
ALTICE USA	ATUS
ALTIMMUNE	ALT
ALTO INGREDIENTS INC	ALTO
ALTRA INDUSTRIAL MOTION	AIMC
ALTRIA GROUP	MO
ALTUS MIDSTREAM COMPANY (A)	ALTM
ALX ONCOLOGY HOLDINGS	ALXO
AMALGAMATED FINANCIAL CORP	AMAL

Company	Ticker
AMAZON.COM	AMZN
AMBAC FINANCIAL GROUP INC	AMBC
AMBARELLA INC	AMBA
AMC ENTERTAINMENT	AMC
AMC NETWORKS	AMCX
AMCOR	AMCR
AMDOCS	DOX
AMEDISYS INC	AMED
AMERANT BANCORP (A)	AMTB
AMERCO	UHAL
AMEREN CORP	AEE
AMERESCO	AMRC
AMERICA CAR MART	CRMT
AMERICAN AIRLINES GROUP	AAL
AMERICAN ASSETS TRUST INC.	AAT
AMERICAN AXLE & MFG HOLDINGS	AXL
AMERICAN CAMPUS COMMUNITIES	ACC
AMERICAN EAGLE OUTFITTERS	AEO
AMERICAN ELEC POWER COM	AEP
AMERICAN EQUITY INVESTMENT LIFE	AEL
AMERICAN EXPRESS COM	AXP
AMERICAN FINANCE GROUP HLDG.	AFG
AMERICAN FINANCE TRUST	AFIN
AMERICAN HOMES 4 RENT	AMH
AMERICAN INTL GROUP	AIG
AMERICAN NATIONAL BANKSHARES	AMNB
AMERICAN NATIONAL GROUP INC	ANAT
AMERICAN OUTDOOR BRANDS	AOUT
AMERICAN PUBLIC EDUCATION	APEI
AMERICAN SOFTWARE CLASS A	AMSWA
AMERICAN STATES WATER	AWR
AMERICAN SUPERCONDUCTOR	AMSC
AMERICAN TOWER CORP	AMT
AMERICAN VANGUARD	AVD
AMERICAN WATER WORKS COMPANY	AWK
AMERICAN WELL	AMWL
AMERICAN WOODMARK	AMWD
AMERICOLD REALTY TRUST	COLD
AMERIPRISE FINANCIAL	AMP
AMERIS BANCORP	ABCB
AMERISAFE	AMSF
AMERISOURCEBERGEN	ABC
AMETEK INC	AME
AMGEN CORP	AMGN
AMICUS THERAPEUTICS	FOLD
AMKOR TECH INC	AMKR
AMMO INC	POWW
AMN HEALTHCARE SERVICES INC	AMN

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Company	Ticker
AMARK PRECIOUS METALS	AMRK
AMPHASTAR PHARMACEUTICALS	AMPH
AMPHENOL CORP A	APH
AMPIO PHARMACEUTICALS INC.	AMPE
AMYRIS	AMRS
ANALOG DEVICES	ADI
ANAPLAN	PLAN
ANAPTYS BIO	ANAB
ANAVEX LIFE SCIENCES	AVXL
ANDERSONS INC	ANDE
ANGIODYNAMICS	ANGO
ANGION BIOMEDICA	ANGN
ANI PHARMACEUTICALS	ANIP
ANIKA THERAPEUT	ANIK
ANNALY CAPITAL MANAGEMENT	NLY
ANNEXON	ANNX
ANSYS INC	ANSS
ANTARES PHARMA	ATRS
ANTERIX	ATEX
ANTERO MIDSTREAM CORP	AM
ANTERO RESOURCES	AR
ANTHEM	ANTM
AON PLC	AON
APA CORPORATION	APA
APARTMENT INCOME REIT	AIRC
APARTMENT INV MANAGEMENT	AIV
APELLIS PHARMACEUTICALS	APLS
API GROUP	APG
APOGEE ENTERPRISES	APOG
APOLLO COMMERCIAL REAL ESTATE FINANCE	ARI
APOLLO GLOBAL MANAGEMENT INC	APO
APOLLO MEDICAL HOLDINGS INC	AMEH
APPFOLIO	APPF
APPHARVEST INC	APPH
APPIAN	APPN
APPLE HOSPITALITY REIT	APLE
APPLE INC.	AAPL
APPLIED INDUSTRIAL TECHNOLOGY	AIT
APPLIED MATERIALS	AMAT
APPLIED MOLECULAR TRANSPORT	AMTI
APPLIED THERAPEUTICS	APLT
APRIA	APR
APTARGROUP	ATR
APTIV PLC	APTIV
APYX MEDICAL	APYX
AQUABOUTY TECHNOLOGIES	AQB
ARAMARK	ARMK
ARBOR REALTY TRUST	ABR

Company	Ticker
AMNEAL PHARMACEUTICALS	AMRX
ARCH CAPITAL GP	ACGL
ARCH RESOURCES INC	ARCH
ARCHER DANIELS MIDLAND	ADM
ARCHROCK	AROC
ARCIMOTO	FUV
ARCONIC CORPORATION	ARNC
ARCOSA	ACA
ARCTURUS THERAPEUTICS HOLDINGS INC	ARCT
ARCUS BIOSCIENCES	RCUS
ARCUTIS BIOTHERAPEUTICS	ARQT
ARDAGH GROUP	ARD
ARDELYX INC	ARDX
ARENA PHARMACEUTICALS	ARNA
ARES COMMERCIAL REAL ESTATE	ACRE
ARES MANAGEMENT CORPORATION	ARES
ARGAN INC.	AGX
ARGO GROUP INTL	ARGO
ARISTA NETWORKS	ANET
ARKO CORP (A)	ARKO
ARLO TECHNOLOGIES	ARLO
ARMADA HOFFLER PROPERTIES	AHH
ARMOUR RESIDENTIAL REIT	ARR
ARMSTRONG WORLD INDUSTRIES INC.	AWI
ARRAY TECHNOLOGIES	ARRY
ARROW ELECTRONICS	ARW
ARROW FINANCIAL	AROW
ARROWHEAD PHARMACEUTICALS INC.	ARWR
ARTESIAN RES A	ARTNA
ARTHUR J GALLAGHER	AJG
ARTISAN PARTNERS ASSET MANAGEMENT	APAM
ARVINAS HOLDING	ARVN
ASANA	ASAN
ASBURY AUTOMOTIVE GROUP INC	ABG
ASENSUS SURGICAL INC	ASXC
ASGN INCORPORATED	ASGN
ASHFORD HOSPITALITY TRUST	AHT
ASHLAND GLOBAL HOLDINGS INC	ASH
ASPEN AEROGELS	ASPN
ASPEN TECHNOLOGY	AZPN
ASPIRA WOMENS HEALTH INC	AWH
ASSETMARK FINANCIAL HOLDINGS	AMK
ASSOCIATED BANC-CORP	ASB
ASSOCIATED CAPITAL GROUP	AC
ASSURANT	AIZ
ASSURED GUARANTY	AGO
ASTEC INDS INC	ASTE
ASTRONICS	ATRO

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Company	Ticker
ARBUS BIOPHARMA CORP.	ABUS
ARCBEST CORP	ARCB
ATARA BIOTHERAPEUTICS	ATRA
ATEA PHARMACEUTICALS	AVIR
ATERIAN INC	ATER
ATHENE HOLDING	ATH
ATHENEX	ATNX
ATHERSYS	ATHX
ATHIRA PHARMA	ATHA
ATKORE INC	ATKR
ATLANTIC CAPITAL BANCSHARES	ACBI
ATLANTIC UNION BANKSHARES	AUB
ATLANTICUS HOLDINGS CORP	ATLC
ATLAS AIR WORLDWIDE HOLDINGS	AAWW
ATLAS TECHNICAL CONSULTANTS INC (A)	ATCX
ATLASSIAN	TEAM
ATMOS ENERGY	ATO
ATN INTERNATIONAL	ATNI
ATOMERA	ATOM
ATOSSA THERAPEUTICS	ATOS
ATRECA	BCEL
ATRICURE	ATRC
ATRION CORP	ATRI
AUDACY	AUD
AUTODESK	ADSK
AUTOMATIC DATA PROCESS	ADP
AUTONATION	AN
AUTOZONE	AZO
AVALARA	AVLR
AVALONBAY COMMUNITIES	AVB
AVANGRID	AGR
AVANOS MEDICAL	AVNS
AVANTOR	AVTR
AVAYA HOLDINGS	AVYA
AVEANNA HEALTHCARE HOLDINGS	AVAH
AVERY DENNISON CORP	AVY
AVIAT NETWORKS	AVNW
AVID BIOSERVICES	CDMO
AVID TECHNOLOGY	AVID
AVIDITY BIOSCIENCES	RNA
AVIENT CORP	AVNT
AVIS BUDGET GROUP	CAR
AVISTA CORP	AVA
AVITA MEDICAL	RCEL
AVNET	AVT
AVROBIO	AVRO
AXALTA COATING SYSTEMS	AXTA
AXCELIS TECHS	ACLS

Company	Ticker
AT HOME GROUP	HOME
AT&T	T
AXONICS INC	AXNX
AXOS FINANCIAL	AX
AXSOME THERAPEUTICS	AXSM
AXT INC	AXTI
AZZ INC	AZZ
B RILEY SECURITIES INC	RILY
B&G FOODS	BGS
BABCOCK & WILCOX ENTERPRISES	BW
BADGER METER	BMI
BAKER HUGHES COMPANY	BKR
BALCHEM	BCPC
BALL CORP	BLL
BALLYS CORPORATION	BALY
BANC OF CALIFORNIA	BANC
BANCFIRST	BANF
BANCO LATINOAMERICANO DE COMERCIO EXTERI	BLX
BANCORPSOUTH BANK	BXS
BANDWIDTH CLASS A	BAND
BANK FIRST	BFC
BANK OF AMERICA	BAC
BANK OF HAWAII	BOH
BANK OF MARIN BANCORP	BMRC
BANK OF N.T. BUTTERFIELD & SON	NTB
BANK OF NEW YORK MELLON	BK
BANK OZK	OZK
BANKUNITED	BKU
BANNER CORP	BANR
BAR HARBOR BK	BHB
BARNES & NOBLE EDUCATION	BNED
BARNES GROUP INC	B
BARRETT BUS	BBSI
BASSETT FURNITURE	BSET
BAXTER INTL	BAX
BEACON ROOFING SUPPLY	BECN
BEAM GLOBAL	BEEM
BEAM THERAPEUTICS	BEAM
BEAUTY HEALTH CO	SKIN
BEAZER HOMES USA	BZH
BECTON DICKINSON	BDX
BED BATH BEYOND	BBBY
BELDEN	BDC
BELLRING BRANDS	BRBR
BENCHMARK ELECT	BHE
BENEFITFOCUS	BNFT
BENTLEY SYSTEMS	BSY
BERKELEY LIGHTS	BLI

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Company	Ticker
AXIS CAPITAL HOLDINGS	AXS
AXOGEN	AXGN
AXON ENTERPRISE	AXON
BERRY CORPORATION	BRY
BERRY GLOBAL GROUP	BERY
BEST BUY COMPANY	BBY
BEYOND MEAT	BYND
BEYONDSRING	BYSI
BGC PARTNERS	BGCP
BIG 5 SPORTING GOODS CORP	BGFV
BIG LOTS	BIG
BIGCOMMERCE HOLDINGS	BIGC
BIGLARI HOLDINGS B	BH
BILL.COM HOLDINGS	BILL
BIOATLA	BCAB
BIOCRIST PHARM	BCRX
BIODELIVERY SCIENCES INTL	BDSI
BIODESIX	BDSX
BIOGEN	BIIB
BIOHAVEN PHARMACEUTICALS HOLDINGS	BHVN
BIOLIFE SOLUTIONS INC	BLFS
BIOMARIN PHARM	BMRN
BIOMEA FUSION	BMEA
BIONANO GENOMICS INC	BNGO
BIO-RAD LABS A	BIO
BIO-TECHNE	TECH
BIOVENTUS	BVS
BIOXCEL THERAPEUTICS	BTAI
BJS RESTAURANTS	BJRI
BJ'S WHOLESALE CLUB HOLDINGS	BJ
BLACK DIAMOND THERAPEUTICS	BDTX
BLACK HILLS CORP	BKH
BLACK KNIGHT	BKI
BLACKBAUD	BLKB
BLACKLINE	BL
BLACKROCK INC	BLK
BLACKSTONE MORTGAGE TRUST	BXMT
BLINK CHARGING	BLNK
BLOCK (H & R) NPV	HRB
BLOOM ENERGY	BE
BLOOMIN BRANDS	BLMN
BLUCORA	BCOR
BLUE BIRD	BLBD
BLUE RIDGE BANKSHARES	BRBS
BLUEBIRD BIO	BLUE
BLUEGREEN VACATIONS HOLDING CORPORATION	BVH
BLUELIX HOLDINGS	BXC
BLUEPRINT MEDICINES	BPMC

Company	Ticker
BERKLEY W R	WRB
BERKSHIRE HATHAWAY B	BRK.B
BERKSHIRE HILLS BANCORP	BHLB
BONANZA CREEK ENERGY	BCEI
BOOKING HOLDINGS	BKNG
BOOT BARN HOLDINGS	BOOT
BOOZ ALLEN HAMILTON	BAH
BORGWARNER	BWA
BOSTON BEER	SAM
BOSTON OMAHA	BOMN
BOSTON PRIVATE FINANCIAL HOLDING	BPFH
BOSTON PROPERTIES	BXP
BOSTON SCIENTIFIC CORP	BSX
BOTTOMLINE TECHNOLOGIES	EPAY
BOX INC	BOX
BOYD GAMING	BYD
BRADY CORP	BRC
BRAEMAR HOTELS & RESORTS	BHR
BRANDYWINE RLTY	BDN
BRIDGEBIO PHARMA	BBIO
BRIDGEWATER BANCSHARES	BWB
BRIGHAM MINERALS	MNRL
BRIGHT HORIZONS FAMILY SOLUTIONS	BFAM
BRIGHTCOVE	BCOV
BRIGHTHOUSE FINANCIAL	BHF
BRIGHTSPHERE INVESTMENT GROUP INC	BSIG
BRIGHTSPIRE CAPITAL INC (A)	BRSP
BRIGHTVIEW HOLDINGS	BV
BRINKER INTERNATIONAL	EAT
BRINKS CO	BCO
BRISTOL MYERS SQUIBB	BMJ
BRISTOW GROUP INC	VTOL
BRIXMOR PROPERTY GROUP	BRX
BROADCOM	AVGO
BROADMARK REALTY CAPITAL INC (A)	BRMK
BROADRIDGE FINANCIAL SOLUTIONS	BR
BROADSTONE NET LEASE	BNL
BROOKDALE SENIOR LIVING	BKD
BROOKFIELD INFRASTRUCTURE	BIPC
BROOKFIELD PROPERTY	BPYU
BROOKFIELD RENEWABLE CORPORATION	BEPC
BROOKLINE BANCORP INC	BRKL
BROOKLYN IMMUNO THERAPEUTICS	BTX
BROOKS AUTOMATION	BRKS
BROWN & BROWN	BRO
BROWN-FORMAN B	BF.B
BROWN-FORMAN CLASS A	BF.A
BRP GROUP	BRP

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Company	Ticker
BOEING	BA
BOISE CASCADE COMPANY	BCC
BOK FINANCIAL CORP	BOKF
BOLT BIOTHERAPEUTICS	BOLT
BTRS HOLDINGS INC (A)	BTRS
BUCKLE INC	BKE
BUILDERS FIRSTSOURCE INC.	BLDR
BUNGE	BG
BURLINGTON STORES	BURL
BUSINESS FIRST BANCSHARES	BFST
BUTTERFLY NETWORK INC (A)	BFLY
BWX TECHNOLOGIES	BWXT
BYLINE BANCORP	BY
BYRNA TECHNOLOGIES	BYRN
C.H. ROBINSON WORLDWIDE	CHRW
C3 AI	AI
C4 THERAPEUTICS	CCCC
CABLE ONE	CABO
CABOT CORP	CBT
CABOT OIL & GAS	COG
CACI INC CL A	CACI
CACTUS CLASS A	WHD
CADENCE BANCORPORATION	CADE
CADENCE DESIGN SYSTEMS	CDNS
CADIZ INC	CDZI
CAESARS ENTERTAINMENT INC	CZR
CAESARSTONE LTD	CSTE
CAI INTERNATIONAL	CAI
CALAMP CORP	CAMP
CALAVO GROWERS INC	CVGW
CALERES	CAL
CALIFORNIA RESOURCES	CRC
CALIFORNIA WATER SERVICE GROUP	CWT
CALIX NETWORKS	CALX
CALLAWAY GOLF	ELY
CALLON PETROLEUM	CPE
CAL-MAINE FOODS	CALM
CAMBIUM NETWORKS	CMBM
CAMBRIDGE BANCORP	CATC
CAMDEN NATIONAL	CAC
CAMDEN PROPERTY	CPT
CAMPBELL SOUP	CPB
CAMPING WORLD HOLDINGS	CWH
CANNAE HOLDINGS	CNNE
CANOO INC (A)	GOEV
CANTALOUPE INC	CTLP
CAPITAL BANCORP	CBNK
CAPITAL CITY BANK GP	CCBG

Company	Ticker
BRT APARTMENTS	BRT
BRUKER	BRKR
BRUNSWICK CORP	BC
BRYN MAWR BANK	BMTC
CARA THERAPEUTICS	CARA
CARDIFF ONCOLOGY INC	CRDF
CARDINAL HEALTH	CAH
CARDIOVASCULAR SYSTEMS INC	CSII
CARDLYTICS	CDLX
CAREDX INC	CDNA
CARETRUST REIT	CTRE
CARGURUS CLASS A	CARG
CARLISLE COS INC	CSL
CARLOTZ INC (A)	LOTZ
CARLYLE GROUP INC	CG
CARMAX INC	KMX
CARNIVAL CORP A	CCL
CARPARTS COM	PRTS
CARPENTER TECH	CRS
CARRIAGE SVCS	CSV
CARRIER GLOBAL	CARR
CARROLS RESTAURANT GROUP	TAST
CARS.COM	CARS
CARTER BANKSHARES INC	CARE
CARTERS	CRI
CARVANA	CVNA
CASA SYSTEMS	CASA
CASELLA WASTE	CWST
CASEYS GENERAL STORES	CASY
CASPER SLEEP	CSPR
CASS INFORMATION SYSTEMS	CASS
CASSAVA SCIENCES	SAVA
CASTLE BIOSCIENCES	CSTL
CASTLIGHT HEALTH	CSLT
CATALENT	CTLT
CATALYST PHARMACEUTICALS	CPRX
CATCHMARK TIMBER TRUST	CTT
CATERPILLAR	CAT
CATHAY BANCORP	CATY
CATO CORP CL A	CATO
CAVCO INDUSTRIES	CVCO
CBIZ	CBZ
CBOE GLOBAL MARKETS	CBOE
CBRE GROUP	CBRE
CBTX	CBTX
CDK GLOBAL	CDK
CDW	CDW
CECO ENV CORP	CECE

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Company	Ticker
CAPITAL ONE FINANCIAL	COF
CAPITOL FEDERAL FINANCIAL	CFFN
CAPRI HOLDINGS LIMITED	CPRI
CAPSTAR FINANCIAL HOLDINGS	CSTR
CAPSTEAD MORTGAGE	CMO
CENTENE CORP	CNC
CENTENNIAL RESOURCE DEVELOPMENT	CDEV
CENTERPOINT ENERGY	CNP
CENTERSPACE	CSR
CENTRAL GARDEN & PET CO A	CENTA
CENTRAL GARDEN & PET	CENT
CENTRAL PACIFIC FINANCIAL	CPF
CENTRUS ENERGY CORPORATION	LEU
CENTURY ALUMINIUM	CENX
CENTURY BNCP A	CNBKA
CENTURY CASINO	CNTY
CENTURY COMMUNITIES	CCS
CERECOR INC	CERC
CERENCE	CRNC
CEREVEL THERAPEUTICS HOLDINGS (A)	CERE
CERIDIAN HCM HOLDING	CDAY
CERNER CORP	CERN
CERTARA	CERT
CERUS CORP	CERS
CEVA	CEVA
CF INDUSTRIES HOLDINGS	CF
CHAMPIONX CORPORATION	CHX
CHANGE HEALTHCARE	CHNG
CHANNELADVISOR CORP	ECOM
CHARGEPOINT HOLDINGS INC (A)	CHPT
CHARLES RIVER LABORATORIES	CRL
CHART INDUSTRIES INC.	GTLS
CHARTER COMMUNICATIONS INC. CL A	CHTR
CHASE CORP	CCF
CHATHAM LODGING TRUST	CLDT
CHEESECAKE FACTORY (THE)	CAKE
CHEFS WAREHOUSE HOLDINGS	CHEF
CHEGG	CHGG
CHEMED	CHE
CHEMOCENTRYX INC	CCXI
CHEMOURS COMPANY	CC
CHENIERE ENERGY	LNG
CHESAPEAKE ENERGY	CHK
CHESAPEAKE UTILITIES CORP	CPK
CHEVRON	CVX
CHICKEN SOUP FOR THE SOUL ENTERTAINMENT	CSSE
CHICOS FAS INC	CHS
CHILDRENS PLACE	PLCE

Company	Ticker
CELANESE	CE
CELCIITY	CELC
CELLDEX THERAPEUTICS	CLDX
CEL-SCI CORP	CVM
CELSIUS HOLDINGS INC.	CELH
CHUBB LTD	CB
CHURCH & DWIGHT	CHD
CHURCHILL DOWNS	CHDN
CHUY'S HOLDINGS INC	CHUY
CIENA	CIEN
CIGNA CORP	CI
CIMAREX ENERGY CO	XEC
CIMPRESS PLC	CMPR
CINCINNATI BELL	CBB
CINCINNATI FIN CP	CINF
CINEMARK HOLDINGS INC.	CNK
CINTAS CORP	CTAS
CIRCOR INTL	CIR
CIRRUS LOGIC	CRUS
CISCO SYSTEMS	CSCO
CIT GROUP	CIT
CITI TRENDS	CTRN
CITIGROUP	C
CITIUS PHARMACEUTICALS	CTXR
CITIZENS & NORTHERN	CZNC
CITIZENS FINANCIAL GROUP	CFG
CITIZENS INC A	CIA
CITRIX SYSTEMS	CTXS
CITY HOLDING	CHCO
CITY OFFICE REIT	CIO
CIVISTA BANCSHARES	CIVB
CLARIVATE PLC (A)	CLVT
CLARUS CORPORATION	CLAR
CLEAN ENERGY FUELS	CLNE
CLEAN HARBORS	CLH
CLEANSARK	CLSK
CLEAR CHANNEL OUTDOOR HOLDINGS	CCO
CLEARFIELD INC.	CLFD
CLEARPOINT NEURO INC	CLPT
CLEARWATER PAPER	CLW
CLEARWAY ENERGY	CWEN.A
CLEARWAY ENERGY (C)	CWEN
CLENE INC	CLNN
CLEVELAND-CLIFFS	CLF
CLIPPER REALTY	CLPR
COLOROX	CLX
CLOUDERA	CLDR
CLOUDFLARE	NET

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Company	Ticker
CHIMERA INVESTMENT	CIM
CHIMERIX INC	CMRX
CHINOOK THERAPEUTICS INC	KDNY
CHIPOTLE MEXICAN GRILL	CMG
CHOICE HOTELS INTERNATIONAL	CHH
CHROMADEX CORP	CDXC
CNO FINANCIAL GROUP	CNO
CNX RESOURCES	CNX
COASTAL FINANCIAL	CCB
COCA-COLA	KO
COCA-COLA CONSOLIDATED	COKE
CODEXIS	CDXS
CODIAK BIOSCIENCES	CDAK
COEUR MINING INC	CDE
COGENT BIOSCIENCES INC	COGT
COGENT COMMUNICATIONS HOLDINGS	CCOI
COGNEX CORP	CGNX
COGNIZANT TECH SOLUTIONS	CTSH
COHEN & STEERS	CNS
COHERENT INC	COHR
COHERUS BIOSCIENCES	CHRS
COHU INC	COHU
COLFAX	CFX
COLGATE-PALMOLIVE	CL
COLLEGIUM PHARMACEUTICAL	COLL
COLUMBIA BANKING SYSTEM	COLB
COLUMBIA FINANCIAL	CLBK
COLUMBIA PROPERTY TRUST INC	CXP
COLUMBIA SPORTSWEAR CO	COLM
COLUMBUS MCKINNON	CMCO
COMCAST A	CMCSA
COMERICA	CMA
COMFORT SYSTEMS USA	FIX
COMMERCE BANCSHARES	CBSH
COMMERCIAL METALS	CMC
COMMERCIAL VEHICLE GROUP	CVGI
COMMSCOPE HOLDING COMPANY	COMM
COMMUNITY BANK SYS	CBU
COMMUNITY HEALTH SYSTEM	CYH
COMMUNITY HEALTHCARE TRUST	CHCT
COMMUNITY TST	CTBI
COMMVAULT SYSTEMS	CVLT
COMPASS MINERALS INTERNATIONAL	CMP
COMPUTER PROGRAMS & SYSTEMS	CPSI
COMPX INTERNATIONAL	CIX
COMSCORE	SCOR
COMSTOCK RSCS	CRK
COMTECH TELECOMMUNICATIONS	CMTL

Company	Ticker
CLOVIS ONCOLOGY	CLVS
CMC MATERIALS INC	CCMP
CME GROUP	CME
CMS ENERGY CORP	CMS
CNA FINANCIAL CORP	CNA
CNB FINANCIAL	CCNE
CONOCOPHILLIPS	COP
CONS EDISON HOLDING	ED
CONSOL ENERGY	CEIX
CONSOLIDATED COMMUNICATIONS HOLDINGS	CNSL
CONSTELLATION BRANDS A	STZ
CONSTELLATION PHARMACEUTICALS	CNST
CONSTELLIUM SE	CSTM
CONSTRUCTION PARTNERS	ROAD
CONTANGO OIL & GAS CO INC	MCF
CONTINENTAL RESOURCES OK	CLR
COOPER COS INC	COO
COOPER-STANDARD HOLDINGS INC	CPS
COPA HOLDINGS S.A. CL A	CPA
COPART INC	CPRT
CORCEPT THERAPEUTICS	CORT
CORECIVIC	CXW
CORE-MARK HOLDING CO	CORE
COREPOINT LODGINGS	CPLG
CORESITE REALTY	COR
CORMEDIX INC.	CRMD
CORNERSTONE BUILDING BRANDS	CNR
CORNERSTONE ONDEMAND	CSOD
CORNING	GLW
CORPORATE OFFICE PROPERTIES	OFC
CORSAIR GAMING	CRSR
CORTEVA	CTVA
CORTEXIME	CRTX
CORVEL CORP	CRVL
COSTAMARE	CMRE
COSTAR GROUP	CSGP
COSTCO WHOLESALE CORP	COST
COTY	COTY
COUPA SOFTWARE	COUP
COURSERA	COUR
COUSINS PROPERTY	CUZ
COVANTA HOLDING	CVA
COVENANT LOGISTICS GROUP INC	CVLG
COVETRUS	CVET
COWEN	COWN
CRA INTERNATIONAL	CRAI
CRACKER BARREL OLD COUNTRY STORE	CBRL
CRANE CO	CR



# Membership list

## Russell 3000® Index

Company	Ticker
CONAGRA BRANDS INC	CAG
CONCENTRIX	CNXC
CONCRETE PUMPING HOLDINGS (A)	BBCP
CONDUENT	CNDT
CONMED CORP	CNMD
CONNECTONE BANCORP	CNOB
CONN'S	CONN
CROWDSTRIKE HOLDINGS	CRWD
CROWN CASTLE INTL CORP	CCI
CROWN HOLDINGS	CCK
CRYOLIFE	CRY
CRYOPORT INC.	CYRX
CSG SYSTEMS INTL	CSGS
CSW INDUSTRIALS	CSWI
CSX CORP	CSX
CTO REALTY GROWTH INC	CTO
CTS	CTS
CUBESMART	CUBE
CUE BIOPHARMA	CUE
CULLEN FROST BANKERS	CFR
CULLINAN ONCOLOGY INC	CGEM
CUMMINS	CMI
CUREVAC NV	CVAC
CURIOSITYSTREAM INC (A)	CURI
CURIS INC	CRIS
CURO GROUP HOLDINGS	CURO
CURTISS WRIGHT	CW
CUSHMAN & WAKEFIELD	CWK
CUSTOM TRUCK ONE SOURCE INC (A)	CTOS
CUSTOMERS BANCORP	CUBI
CUTERA	CUTR
CVB FINANCIAL	CVBF
CVR ENERGY	CVI
CVS HEALTH CORPORATION	CVS
CYMABAY THERAPEUTICS	CBAY
CYRUSONE	CONE
CYTOKINETICS	CYTK
CYTOMX THERAPEUTICS	CTMX
CYTOSORBENTS	CTSO
D.R. HORTON INC	DHI
DAILY JOURNAL	DJCO
DAKTRONICS INC	DAKT
DANA	DAN
DANAHER CORP	DHR
DANIMER SCIENTIFIC INC (A)	DNMR
DARDEN RESTAURANTS	DRI
DARIOHEALTH	DRIO
DARLING INGREDIENTS	DAR

Company	Ticker
CRAWFORD CO A	CRD.A
CREDIT ACCEPTANCE CP	CACC
CREE INC	CREE
CRINETICS PHARMACEUTICALS	CRNX
CROCS	CROX
CROSS COUNTRY HEALTHCARE	CCRN
CROSSFIRST BANKSHARES	CFB
DEL TACO RESTAURANTS	TACO
DELEK US HOLDINGS	DK
DELL TECHNOLOGIES	DELL
DELTA AIR LINES	DAL
DELUXE CORP	DLX
DENALI THERAPEUTICS	DNLI
DENBURY	DEN
DENNYS CORP	DENN
DENTSPLY SIRONA	XRAY
DERMTECH INC	DMTK
DESIGN THERAPEUTICS	DSGN
DESIGNER BRANDS	DBI
DESKTOP METAL INC (A)	DM
DEVON ENERGY	DVN
DEXCOM	DXCM
DHT HOLDINGS	DHT
DIAMOND HILL INVESTMENT GRP	DHIL
DIAMOND S SHIPPING	DSSI
DIAMONDBACK ENERGY	FANG
DIAMONDROCK HOSPITALITY	DRH
DICERNA PHARMACEUTICALS	DRNA
DICK'S SPORTING GOODS INC	DKS
DIEBOLD NIXDORF	DBD
DIGI INTERNATIONAL	DGII
DIGIMARC CORP.	DMRC
DIGITAL MEDIA SOLUTIONS INC (A)	DMS
DIGITAL REALTY TRUST	DLR
DIGITAL TURBINE	APPS
DIGITALBRIDGE GROUP INC	DBRG
DIGITALOCEAN HOLDINGS	DOCN
DILLARD'S INC	DDS
DIME COMMUNITY BANCSHARES INC	DCOM
DINE BRANDS GLOBAL	DIN
DIODES INC	DIOD
DISCOVER FINANCIAL SERVICES	DFS
DISCOVERY SERIES A	DISCA
DISCOVERY SERIES C	DISCK
DISH NETWORK	DISH
DISNEY (WALT) COMPANY	DIS
DIVERSEY HOLDINGS	DSEY
DIVERSIFIED HEALTHCARE TRUST	DHC

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## Russell 3000® Index

Company	Ticker
DASEKE INC	DSKE
DATADOG	DDOG
DATTO HOLDING	MSP
DAVE & BUSTERS ENTERTAINMENT	PLAY
DAVITA	DVA
DECIPHERA PHARMACEUTICALS	DCPH
DECKERS OUTDOOR	DECK
DEERE & CO	DE
DOMTAR CORP	UFS
DONALDSON CO INC	DCI
DONEGAL GROUP A	DGICA
DONNELLEY (RR) & SONS	RRD
DONNELLEY FINANCIAL SOLUTIONS	DFIN
DOORDASH	DASH
DORIAN LPG	LPG
DORMAN PRODUCTS	DORM
DOUBLEVERIFY HOLDINGS	DV
DOUGLAS DYNAMICS	FLOW
DOUGLAS EMMETT	DEI
DOVER CORP	DOV
DOW INC	DOW
DRAFTKINGS INC (A)	DKNG
DRIL-QUIP	DRQ
DRIVE SHACK	DS
DRIVEN BRANDS HOLDINGS	DRVN
DROPBOX	DBX
DSP GROUP INC	DSPG
DTE ENERGY	DTE
DUCK CREEK TECHNOLOGIES	DCT
DUCKHORN PORTFOLIO	NAPA
DUCOMMUN INC	DCO
DUKE ENERGY CORP	DUK
DUKE REALTY CORP	DRE
DULUTH HOLDINGS	DLTH
DUN AND BRADSTREET HOLDINGS	DNB
DUPONT DE NEMOURS	DD
DURECT CORP	DRRX
DXC TECHNOLOGY COMPANY	DXC
DXP ENTERPRISES	DXPE
DYCOM INDS INC	DY
DYNATRACE	DT
DYNAVAX TECHNOLOGIES	DVAX
DYNE THERAPEUTICS	DYN
DYNEX CAPITAL	DX
DZS INC	DZSI
E.L.F BEAUTY	ELF
E2OPEN PARENT HOLDINGS INC (A)	ETWO
EAGLE BANCORP	EGBN

Company	Ticker
DMC GLOBAL	BOOM
DOCUSIGN	DOCU
DOLBY LABS A	DLB
DOLLAR GENERAL	DG
DOLLAR TREE	DLTR
DOMINION ENERGY	D
DOMINOS PIZZA	DPZ
DOMO INCORPORATED	DOMO
EASTMAN CHEMICAL	EMN
EASTMAN KODAK CO	KODK
EATON CORP PLC	ETN
EBAY	EBAY
EBIX INC	EBIX
ECHO GLOBAL LOGISTICS	ECHO
ECHOSTAR	SATS
ECOLAB	ECL
EDGEWELL PERSONAL CARE	EPC
EDGEWISE THERAPEUTICS	EWTX
EDISON INTERNATIONAL	EIX
EDITAS MEDICINE	EDIT
EDWARDS LIFESCIENCES	EW
EGAIN	EGAN
EHEALTH	EHTH
EIGER BIOPHARMACEUTICALS	EIGR
EL POLLO LOCO HOLDINGS	LOCO
ELANCO ANIMAL HEALTH	ELAN
ELASTIC N.V.	ESTC
ELECTRONIC ARTS	EA
ELEMENT SOLUTIONS	ESI
ELLINGTON FINANCIAL INC	EFC
EMCOR GROUP	EME
EMCORE CORP	EMKR
EMERALD HOLDING INC	EEX
EMERGENT BIOSOLUTIONS	EBS
EMERSON ELECTRIC	EMR
EMPIRE STATE REALTY TRUST	ESRT
EMPLOYERS HOLDINGS	EIG
ENANTA PHARMACEUTICALS INC	ENTA
ENCOMPASS HEALTH	EHC
ENCORE CAPITAL GROUP	ECPG
ENCORE WIRE	WIRE
ENDO INTERNATIONAL PLC	ENDP
ENERGIZER HOLDINGS	ENR
ENERGY FUELS INC	UUUU
ENERGY RECOVERY INC.	ERII
ENERPAC TOOL GROUP CORP	EPAC
ENERSYS	ENS
ENNIS	EBF

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Company	Ticker
EAGLE BULK SHIPPING	EGLE
EAGLE MATERIALS	EXP
EAGLE PHARMACEUTICALS	EGRX
EARGO	EAR
EARTHSTONE ENERGY	ESTE
EAST WEST BANCORP	EWBC
EASTERLY GOVERNMENT PROPERTIES	DEA
EASTERN BANKSHARES	EBC
EASTGROUP PROPERTIES	EGP
ENTRAVISION COMMS	EVC
ENVESTNET	ENV
ENVISTA HOLDINGS	NVST
EOG RESOURCES	EOG
EOS ENERGY ENTERPRISES INC (A)	EOSE
EPAM SYSTEMS	EPAM
EPIZYME INC	EPZM
EPLUS INC	PLUS
EPR PROPERTIES	EPR
EQT CORPORATION	EQT
EQUIFAX	EFX
EQUINIX INC	EQIX
EQUITABLE HOLDINGS	EQH
EQUITRANS MIDSTREAM	ETRN
EQUITY BANCSHARES	EQBK
EQUITY COMMONWEALTH	EQC
EQUITY LIFESTYLE PROPERTIES	ELS
EQUITY RESIDENTIAL	EQR
ERIE INDEMNITY	ERIE
EROS STX GLOBAL CORP	ESGC
ESCALADE INC	ESCA
ESCO TECHNOLOGIES	ESE
ESPERION THERAPEUTICS INC	ESPR
ESPORTS TECHNOLOGIES	EBET
ESSENT GROUP	ESNT
ESSENTIAL PROPERTIES REALTY TRUST	EPRT
ESSENTIAL UTILITIES INC	WTRG
ESSEX PROP TRUST	ESS
ETHAN ALLEN INTERIORS	ETH
ETSY	ETSY
EURONET WORLDWIDE	EEFT
EVELO BIOSCIENCES	EVLO
EVENTBRITE	EB
EVERBRIDGE	EVBG
EVERCORE	EVR
EVEREST RE GROUP	RE
EVERGY	EVERG
EVERI HOLDINGS	EVRI
EVERQUOTE	EVER

Company	Ticker
ENOVA INTERNATIONAL	ENVA
ENPHASE ENERGY INC	ENPH
ENPRO INDUSTRIES INC	NPO
ENSIGN GROUP	ENSG
ENSTAR GROUP	ESGR
ENTEGRIS INC	ENTG
ENERGY CORP	ETR
ENTERPRISE BANCORP	EBTC
ENTERPRISE FINANCIAL SERVICES	EFSC
EXELON CORPORATION	EXC
EXLSERVICE HOLDINGS	EXLS
EXONE CO	XONE
EXP WORLD HOLDINGS	EXPI
EXPEDIA GROUP	EXPE
EXPEDITORS INTL WASHINGTON	EXPD
EXPONENT INC	EXPO
EXTRA SPACE STORAGE	EXR
EXTRACTION OIL & GAS	XOG
EXTREME NETWORKS	EXTR
EXXON MOBIL CORPORATION	XOM
EYEPOINT PHARMACEUTICALS	EYPT
EZCORP INC A	EZPW
F.N.B. CORPORATION	FNB
F5 NETWORKS INC	FFIV
FABRINET	FN
FACEBOOK CLASS A	FB
FACTSET RESEARCH SYSTEMS	FDS
FAIR ISAAC	FICO
FALCON MINERALS (A)	FLMN
FARMERS NATIONAL BANC CORP.	FMNB
FARMLAND PARTNERS REIT	FPI
FARO TECHNOLOGY	FARO
FASTENAL CO	FAST
FASTLY	FSLY
FATE THERAPEUTICS INC	FATE
FATHOM HOLDINGS	FTHM
FB FINANCIAL	FBK
FED AGRICUL MTG	AGM
FEDERAL REALTY INVS	FRT
FEDERAL SIGNAL	FSS
FEDERATED HERMES INC	FHI
FEDEX CORPORATION	FDX
FERRO CORP	FOE
FIBROGEN	FGEN
FIDELITY D&D BANCORP INC.	FDBC
FIDELITY NATL INFORMATION SERVICES	FIS
FIESTA RESTAURANT GROUP	FRGI
FIFTH THIRD BANCORP	FITB

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Company	Ticker
EVERSOURCE ENERGY	ES
EVERTEC	EVTC
EVI INDUSTRIES	EVI
EVO PAYMENTS	EVOP
EVOLVENT HEALTH	EVH
EVOLUS	EOLS
EVOQUA WATER TECHNOLOGIES	AQUA
EXACT SCIENCES	EXAS
EXAGEN	XGN
EXELIXIS INC	EXEL
FIRST CHOICE BANCORP	FCBP
FIRST CITIZENS BANCSH A	FCNCA
FIRST COMMONWEALTH FIN	FCF
FIRST COMMUNITY BANCSHARES	FCBC
FIRST FINANCIAL BANCORP	FFBC
FIRST FINL BANKSHARES	FFIN
FIRST FINL CORP	THFF
FIRST FOUNDATION	FFWM
FIRST HAWAIIAN	FHB
FIRST HORIZON CORPORATION	FHN
FIRST INDUSTRIAL REALTY TRUST	FR
FIRST INTERNET BANCORP	INBK
FIRST INTERSTATE BANCSYSTEM	FIBK
FIRST LONG ISLAND	FLIC
FIRST MERCHANTS	FRME
FIRST MID BANCSHARES	FMBH
FIRST MIDWEST BANCORP	FMBI
FIRST REPUBLIC BANK SAN FRANCISCO	FRC
FIRST SOLAR INC	FSLR
FIRSTCASH	FCFS
FIRSTENERGY CORP.	FE
FISERV INC	FISV
FISKER INC (A)	FSR
FIVE BELOW	FIVE
FIVE STAR BANCORP	FSBC
FIVE9	FIVN
FLAGSTAR BANCORP	FBC
FLEETCOR TECHNOLOGIES	FLT
FLEXION THERAPEUTICS	FLXN
FLEXSTEEL INDS	FLXS
FLOOR & DECOR HOLDINGS	FND
FLOWERS FOODS INC	FLO
FLOWSERVE CP	FLS
FLUENT	FLNT
FLUIDIGM	FLDM
FLUOR CORPORATION	FLR
FLUSHING FINANCIAL	FFIC
FMC CORP	FMC

Company	Ticker
FINANCE OF AMERICA COMPANIES INC	FOA
FINANCIAL INSTITUTIONS	FISI
FINCH THERAPEUTICS GROUP	FNCH
FIREEYE	FEYE
FIRST AMERICAN FINANCIAL	FAF
FIRST BANCORP	FBNC
FIRST BANCORP PUERTO RICO	FBP
FIRST BANCSHARES INC.	FBMS
FIRST BANK	FRBA
FIRST BUSEY	BUSE
FORTERRA INC	FRTA
FORTINET	FTNT
FORTIVE	FTV
FORTRESS BIOTECH	FBIO
FORTUNE BRANDS HOME & SECURITY	FBHS
FORWARD AIR CORP	FWRD
FOSSIL GROUP	FOSL
FOUR CORNERS PROPERTY TRUST	FCPT
FOX CORPORATION CLASS A	FOXA
FOX CORPORATION CLASS B	FOX
FOX FACTORY HOLDING	FOXF
FRANCHISE GROUP	FRG
FRANKLIN COVEY	FC
FRANKLIN ELEC	FELE
FRANKLIN RESOURCES	BEN
FRANKLIN STREET PROPERTIES	FSP
FRANKS INTERNATIONAL	FI
FREEMPORT-MCMORAN	FCX
FREQUENCY THERAPEUTICS	FREQ
FRESH DEL MONTE	FDP
FRESHPET	FRPT
FRONTDOOR	FTDR
FRONTIER GROUP HOLDINGS	ULCC
FRONTLINE	FRO
FRP HOLDINGS	FRPH
FS BANCORP INC	FSBW
FTC SOLAR	FTCI
FTI CONSULTING	FCN
FTS INTERNATIONAL	FTSI
FUBOTV	FUBO
FUELCELL ENERGY	FCEL
FULCRUM THERAPEUTICS	FULC
FULGENT GENETICS	FLGT
FULL HOUSE RESORTS INC.	FLL
FULLER H B CO	FUL
FULTON FINANCIAL CORP	FULT
FUNKO CLASS A	FNKO
FUTUREFUEL CORP.	FF

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Company	Ticker
FNF GROUP	FNF
FOCUS FINANCIAL PARTNERS	FOCS
FOGHORN THERAPEUTICS	FHTX
FOOT LOCKER INC	FL
FORD MOTOR COMPANY	F
FORESTAR GROUP	FOR
FORIAN	FORA
FORMA THERAPEUTICS HOLDINGS	FMTX
FORMFACTOR	FORM
FORRESTER RESEARCH	FORR
FORTE BIOSCIENCES INC	FBRX
GATOS SILVER	GATO
GATX CORP	GATX
GCM GROSVENOR INC (A)	GCMG
GCP APPLIED TECHNOLOGIES	GCP
GEMINI THERAPEUTICS INC	GMTX
GENCO SHIPPING & TRADING LTD.	GNK
GENERAC HOLDINGS	GNRC
GENERAL DYNAMICS CORP	GD
GENERAL ELECTRIC	GE
GENERAL MILLS	GIS
GENERAL MOTORS	GM
GENERATION BIO	GBIO
GENESCO INC	GCO
GENIUS BRANDS INTL INC	GNUS
GENPACT	G
GENTEX CORP	GNTX
GENTHERM	THRM
GENUINE PARTS	GPC
GENWORTH FINANCIAL CLASS A	GNW
GEO GROUP	GEO
GERMAN AMERICAN BANCORP	GABC
GERON CORP	GERN
GETTY REALTY	GTY
GEVO	GEVO
GIBRALTAR INDUSTRIES	ROCK
GILEAD SCIENCES	GILD
GLACIER BANCORP	GBCI
GLADSTONE COMMERCIAL	GOOD
GLADSTONE LAND	LAND
GLATFELTER CORPORATION	GLT
GLAUKOS	GKOS
GLOBAL BLOOD THERAPEUTICS	GBT
GLOBAL INDUSTRIAL COMPANY	GIC
GLOBAL MEDICAL REIT	GMRE
GLOBAL NET LEASE	GNL
GLOBAL PAYMENTS INC	GPN
GLOBAL WATER RESOURCES	GWRS

Company	Ticker
G1 THERAPEUTICS	GTHX
GAMCO INVESTORS	GBL
GAMESTOP CORP	GME
GAMING & LEISURE PROPERTIES	GLPI
GAN	GAN
GANNETT CO INC	GCI
GAP	GPS
GARMIN LTD	GRMN
GARTNER	IT
GATES INDUSTRIAL	GTES
G-III APPAREL	GIII
GOOSEHEAD INSURANCE	GSHD
GOPRO	GPRO
GORMAN-RUPP CO	GRC
GOSSAMER BIO	GOSS
GP STRATEGIES	GPX
GRACE (WR)	GRA
GRACO INC	GGG
GRAFTECH INTERNATIONAL	EGF
GRAHAM HOLDINGS	GHC
GRAINGER (W W)	GWV
GRAND CANYON EDUCATION INC.	LOPE
GRANITE CONSTRUCTION	GVA
GRANITE POINT MORTGAGE TRUST	GPMT
GRAPHIC PACKAGING HOLDING	GPK
GRAY TELEVISION INC	GTN
GREAT AJAX	AJX
GREAT LAKES DREDGE & DOCK	GLDD
GREAT SOUTHERN BANCORP	GSBC
GREAT WESTERN BANCORP	GWB
GREEN BRICK PARTNERS	GRBK
GREEN DOT	GDOT
GREEN PLAINS	GPRE
GREENBOX POS	GBOX
GREENBRIER CO	GBX
GREENHILL & CO	GHL
GREENLANE HOLDINGS	GNLN
GREENLIGHT CAPITAL RE LTD	GLRE
GREENSKY	GSKY
GREENWICH LIFESCIENCES	GLSI
GREIF INC A	GEF
GREIF INC B	GEF.B
GRID DYNAMICS HOLDINGS INC (A)	GDYN
GRIFFON	GFF
GRITSTONE BIO INC	GRTS
GROCERY OUTLET HOLDING	GO
GROUP 1 AUTO	GPI
GROUPON	GRPN

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Company	Ticker
GLOBALSTAR	GSAT
GLOBANT SA	GLOB
GLOBE LIFE	GL
GLOBUS MEDICAL	GMED
GODADDY	GDDY
GOGO INC.	GOGO
GOHEALTH	GOCO
GOLAR LNG LTD.	GLNG
GOLDEN ENTERTAINMENT	GDEN
GOLDEN NUGGET ONLINE GAMING INC (A)	GNOG
GOLDMAN SACHS GROUP	GS
GOODYEAR TIRE & RUBBER	GT
HALLIBURTON	HAL
HALOZYME THERAPEUTICS	HALO
HAMILTON BEACH BRANDS HOLDING COMPANY	HBB
HAMILTON LANE CLASS A	HLNE
HANCOCK WHITNEY	HWC
HANESBRANDS	HBI
HANGER	HNGR
HANMI FINANCIAL	HAFC
HANNON ARMSTRONG SUSTAINABLE INFRASTRUCT	HASI
HANOVER INSURANCE GP	THG
HARBORONE BANC RP	HONE
HARLEY-DAVIDSON	HOG
HARMONIC INC	HLIT
HARMONY BIOSCIENCES HOLDINGS	HRMY
HARPOON THERAPEUTICS	HARP
HARSCO CORP	HSC
HARTFORD FINANCIAL SERVICES GROUP	HIG
HARVARD BIOSCIENCE	HBIO
HASBRO	HAS
HAVERTY FURNITURE	HVT
HAWAIIAN ELECTRIC	HE
HAWAIIAN HOLDINGS	HA
HAWKINS	HWKN
HAYNES INTERNATIONAL INC.	HAYN
HAYWARD HOLDINGS	HAYW
HBT FINANCIAL	HBT
HC2 HOLDINGS	HCHC
HCA HEALTHCARE	HCA
HCI GROUP	HCI
HEALTH CATALYST	HCAT
HEALTHCARE REALTY TRUST	HR
HEALTHCARE SERVICES	HCSG
HEALTHCARE TRUST OF AMERICA INC	HTA
HEALTH EQUITY	HQY
HEALTHPEAK PROPERTIES INC	PEAK
HEALTHSTREAM	HSTM

Company	Ticker
GROWGENERATION	GRWG
GT BIOPHARMA	GTBP
GTY TECHNOLOGY HOLDINGS	GTYH
GUARANTY BANC	GNTY
GUARDANT HEALTH	GH
GUESS INC	GES
GUIDEWIRE SOFTWARE	GWRE
GYPSUM MANAGEMENT AND SUPPLY	GMS
H&E EQUIPMENT SERVICES	HEES
HAEMONETICS	HAE
HAIN CELESTIAL	HAIN
HALL OF FAME RESORT AND ENTERTAINMENT CO	HOFV
HERBALIFE NUTRITION	HLF
HERC HOLDING	HRI
HERITAGE COMMERCE	HTBK
HERITAGE CRYSTAL CLEAN	HCCI
HERITAGE FINL	HFWA
HERITAGE INSURANCE HOLDINGS	HRTG
HERMAN MILLER	MLHR
HERON THERAPEUTICS	HRTX
HERSHA HOSPITALITY TRUST	HT
HERSHEY COMPANY	HSY
HESKA CORP	HSKA
HESS CORP.	HES
HEWLETT PACKARD ENTERPRISE	HPE
HEXCEL	HXL
HF FOODS GROUP INC	HFFG
HIBBETT INC	HIBB
HIGHPEAK ENERGY INC (A)	HPK
HIGHWOODS PROP	HIW
HILLENBRAND	HI
HILL-ROM HOLDINGS	HRC
HILLTOP HOLDINGS	HTH
HILTON GRAND VACATIONS	HGV
HILTON WORLDWIDE	HLT
HINGHAM INST	HIFS
HIREQUEST INC.	HQI
HNI CORPORATION	HNI
HOLLYFRONTIER	HFC
HOLOGIC INC	HOLX
HOME BANCORP INC	HBCP
HOME BANCSHARES	HOMB
HOME DEPOT	HD
HOME POINT CAPITAL	HMPT
HOMESTREET	HMST
HOMETRUST BANCSHARES INC	HTBI
HOMOLOGY MEDICINES	FIXX
HONEST COMPANY	HNST

# Membership list

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Company	Ticker
HEARTLAND EXPRESS	HTLD
HEARTLAND FINANCIAL	HTLF
HECLA MINING CO	HL
HEICO CL A	HEIA
HEICO CORP	HEI
HEIDRICK & STRUGGLES	HSII
HELEN OF TROY LTD	HELE
HELIOS TECHNOLOGIES	HLIO
HELIX ENERGY SOLUTIONS GROUP	HLX
HELMERICH & PAYNE	HP
HEMISPHERE MEDIA GROUP	HMTV
HENRY (JACK) & ASSOCIATES	JKHY
HENRY SCHEIN	HSIC
HOWARD BANCORP INC	HBMD
HOWARD HUGHES	HHC
HOWMET AEROSPACE INC	HWM
HP	HPQ
HUB GROUP A	HUBG
HUBBELL	HUBB
HUBSPOT	HUBS
HUDSON PACIFIC PROPERTIES	HPP
HUMANA	HUM
HUMANIGEN	HGEN
HUNT (JB) TRANSPORT SERVICES	JBHT
HUNTINGTON BANCSHARES	HBAN
HUNTINGTON INGALLS INDUSTRIES	HII
HUNTSMAN	HUN
HURON CONSULTING GROUP	HURN
HYATT HOTELS	H
HYDROFARM HOLDINGS	HYFM
HYLIION HOLDINGS CORP (A)	HYLN
HYRECAR	HYRE
HYSTER-YALE MATERIALS HANDLING CL A	HY
I3 VERTICALS	IIIV
IAA	IAA
IAC INTERACTIVECORP	IAC
IBEX	IBEX
IBIO	IBIO
ICAD INC	ICAD
ICF INTERNATIONAL	ICFI
ICHR HOLDINGS	ICHR
ICU MEDICAL	ICUI
IDACORP INC	IDA
IDEANOMICS	IDEX
IDEAYA BIOSCIENCES	IDYA
IDEX CORP	IEX
IDEXX LABS	IDXX
IDT CORP. CL B	IDT

Company	Ticker
HONEYWELL INTERNATIONAL INCORPORATION	HON
HOOKER FURNITURE CORP	HOFT
HOOKIPA PHARMA	HOOK
HOPE BANCORP	HOPE
HORACE MANN EDUCATORS	HMN
HORIZON BANCORP INC	HBNC
HORIZON THERAPEUTICS PUBLIC LIMITED COMP	HZNP
HORMEL FOODS	HRL
HOST HOTELS & RESORTS	HST
HOSTESS BRANDS	TWNK
HOUGHTON MIFFLIN HARCOURT	HMHC
HOULIHAN LOKEY	HLI
HOVNIANIAN ENTERP	HOV
IMPINJ INC	PI
INARI MEDICAL	NARI
INCYTE	INCY
INDENTIV	INVE
INDEPENDENCE HOLDING	IHC
INDEPENDENCE REALTY TRUST	IRT
INDEPENDENT BANK CORP. MICHIGAN	IBCP
INDEPENDENT BANK GROUP INC	IBTX
INDEPENDENT BANK MASS	INDB
INDUS REALTY TRUST INC	INDT
INDUSTRIAL LOGISTICS PROPERTIES TRUST	ILPT
INFINERA	INFN
INFINITY PHARMACEUTICALS	INFI
INFRASTRUCTURE AND ENERGY ALTERNATIVES	IEA
INFUSYSTEMS HOLDINGS INC.	INFU
INGERSOLL-RAND INC	IR
INGEVITY	NGVT
INGLES MARKETS CL A	IMKTA
INGREDION	INGR
INHIBRX	INBX
INNOSPEC	IOSP
INNOVAGE HOLDING	INN
INNOVATIVE INDUSTRIAL PROPERTIES	IIPR
INNOVIVA	INVA
INOGEN INC	INGN
INOTIV INC	NOTV
INOVALON HOLDINGS	INOV
INOVIO PHARMACEUTICALS INC	INO
INOZYME PHARMA	INZY
INSEGO CORP	INSG
INSIGHT ENTERPRISES	NSIT
INSMED INC	INSM
INSPERITY	NSP
INSPIRE MEDICAL SYSTEMS	INSP
INSTALLED BUILDING PRODUCTS	IBP

# Membership list

## Russell 3000® Index

Company	Ticker
IES HOLDINGS	IESC
IGM BIOSCIENCES	IGMS
IHEARTMEDIA	IHRT
IHS MARKIT	INFO
II-VI INC	IIVI
IKENA ONCOLOGY	IKNA
ILLINOIS TOOL WKS	ITW
ILLUMINA INC	ILMN
IMAX CORP	IMAX
IMMUNIC	IMUX
IMMUNITYBIO INC	IBRX
IMMUNOGEN INC	IMGN
IMMUNOVANT	IMVT
IMPEL NEUROPHARMA	IMPL
INTERNATIONAL BUS MACHNS.	IBM
INTERNATIONAL GAME TECHNOLOGY PLC	IGT
INTERNATIONAL MONEY EXPRESS INC	IMXI
INTERNATIONAL PAPER	IP
INTERNATIONAL SEAWAYS	INSW
INTERPUBLIC GROUP COS	IPG
INTERSECT ENT INC	XENT
INTL BANCSHARES	IBOC
INTL FLAVOURS & FRAGRANCES	IFF
INTRA-CELLULAR THERAPIES	ITCI
INTREPID POTASH	IPI
INTUIT	INTU
INTUITIVE SURGICAL	ISRG
INVACARE CORP	IVC
INVESCO LIMITED	IVZ
INVESCO MORTGAGE CAPITAL	IVR
INVESTORS BANCORP INC.	ISBC
INVESTORS TITL	ITIC
INVITAE CORP	NVTA
INVITATION HOMES	INVH
IONIS PHARMACEUTICALS	IONS
IOVANCE BIOTHERAPEUTICS	IOVA
IPG PHOTONICS	IPGP
IQVIA HOLDINGS	IQV
IRADIMED CORP	IRMD
IRHYTHM TECHNOLOGIES	IRTC
IRIDIUM COMMUNICATIONS INC	IRDM
IROBOT	IRBT
IRON MOUNTAIN	IRM
IRONWOOD PHARMACEUTICALS	IRWD
ISTAR INC.	STAR
ITEOS THERAPEUTICS	ITOS
ITERIS	ITI
ITRON INC	ITRI

Company	Ticker
INSTEEL INDS	IIN
INSTIL BIO	TIL
INSULET CORP.	PODD
INTEGER HOLDINGS	ITGR
INTEGRA LIFESCIENCES HOLDING	IART
INTEL CORP	INTC
INTEL SYS CP	INS
INTELLIA THERAPEUTICS	NTLA
INTER PARFUMS	IPAR
INTERACTIVE BROKERS GROUP	IBKR
INTERCEPT PHARMACEUTICALS INC	ICPT
INTERCONTINENTAL EXCHANGE	ICE
INTERDIGITAL	IDCC
INTERFACE	TILE
JETBLUE AIRWAYS CORP	JBLU
JFROG	FROG
JOANN	JOAN
JOHN BEAN TECHNOLOGIES	JBT
JOHNSON & JOHNSON	JNJ
JOHNSON CONTROLS INTERNATIONAL PLC	JCI
JOHNSON OUTDOOR	JOUT
JOINT CORP	JYNT
JONES LANG LASALLE	JLL
JOUNCE THERAPEUTICS	JNCE
JPMORGAN CHASE & CO	JPM
JUNIPER NETWORKS	JNPR
KADANT INC	KAI
KADMON HOLDINGS	KDMN
KAISER ALUMINUM	KALU
KALA PHARMACEUTICALS	KALA
KALEIDO BIOSCIENCES	KLDO
KALVISTA PHARMACEUTICALS	KALV
KAMAN	KAMN
KANSAS CITY SOUTHERN	KSU
KAR AUCTION SERVICES	KAR
KARAT PACKAGING	KRT
KARUNA THERAPEUTICS	KRTX
KARYOPHARM THERAPEUTICS	KPTI
KB HOME	KBH
KBR	KBR
KEARNY FINANCIAL	KRNY
KELLOGG	K
KELLY SERVICES A	KELYA
KEMPER CORP	KMPR
KEMPHARM	KMPH
KENNAMETAL INC	KMT
KENNEDY-WILSON HOLDINGS INC	KW
KEROS THERAPEUTICS	KROS



# Membership list

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Company	Ticker
ITT INC.	ITT
IVERIC BIO	ISEE
J & J SNACK FOODS	JJSF
J M SMUCKER	SJM
J2 GLOBAL	JCOM
JABIL	JBL
JACK IN THE BOX	JACK
JACOBS ENGINEERING GROUP	J
JAMES RIVER GROUP HOLDINGS	JRVR
JAMF HOLDING	JAMF
JANUS HENDERSON GROUP	JHG
JAZZ PHARMACEUTICALS	JAZZ
JBG SMITH PROPERTIES	JBGS
JEFFERIES FINANCIAL GROUP	JEF
JELD-WEN HOLDING	JELD
KIRKLANDS INC	KIRK
KITE REALTY GROUP TRUST	KRG
KKR & CO INC	KKR
KKR REAL ESTATE FINANCE TRUST	KREF
KLA CORPORATION	KLAC
KNIGHT-SWIFT TRANSPORTATION HOLDINGS	KNX
KNOLL	KNL
KNOWLES CORP.	KN
KODIAK SCIENCES	KOD
KOHL'S CORP	KSS
KONTOOR BRANDS	KTB
KOPIN CORP	KOPN
KOPPERS HOLDINGS	KOP
KORN FERRY	KFY
KOSMOS ENERGY	KOS
KRAFT HEINZ	KHC
KRATON	KRA
KRATOS DEFENSE & SECURITY SOLUTIONS	KTOS
KROGER	KR
KRONOS BIO	KRON
KRONOS WORLDWIDE	KRO
KRYSTAL BIOTECH	KRYS
KULICKE SOFFA	KLIC
KURA ONCOLOGY	KURA
KURA SUSHI USA	KRUS
KVH INDUSTRIES	KVHI
KYMERA THERAPEUTICS	KYMR
L BRANDS	LB
L3HARRIS TECHNOLOGIES	LHX
LABORATORY CORP OF AMERICA	LH
LADDER CAPITAL	LADR
LAIRD SUPERFOOD	LSF
LAKELAND BANCORP INC	LBAI

Company	Ticker
KEURIG DR PEPPER	KDP
KEYCORP	KEY
KEYSIGHT TECHNOLOGIES	KEYS
KEZAR LIFE SCIENCES	KZR
KFORCE	KFRC
KILROY REALTY	KRC
KIMBALL ELECTRONICS	KE
KIMBALL INTL B	KBAL
KIMBERLY-CLARK	KMB
KIMCO REALTY CP	KIM
KINDER MORGAN	KMI
KINIKSA PHARMACEUTICALS	KNSA
KINNATE BIOPHARMA	KNTE
KINSALE CAPITAL GROUP	KNSL
KIRBY CORP	KEX
LAUDER (ESTEE)	EL
LAUREATE EDUCATION	LAUR
LAWSON PRODUCTS	LAWS
LAZARD CLASS A	LAZ
LAZYDAYS HOLDINGS	LAZY
LCI INDUSTRIES	LCII
LEAR CORP	LEA
LEGACY HOUSING CORP	LEGH
LEGETT & PLATT	LEG
LEIDOS HOLDINGS	LDOS
LEMAITRE VASCULAR	LMAT
LEMONADE	LMND
LENDINGCLUB	LC
LENDINGTREE	TREE
LENNAR CLASS A	LEN
LENNAR CORP. CL B	LEN.B
LENNOX INTL INC	LII
LESLIES	LESL
LEXICON PHARMACEUTICALS INC	LXRK
LEXINGTON REALTY TRUST	LXP
LGI HOMES	LGIH
LHC GROUP	LHCG
LIBERTY BRAVES SERIES A	BATRA
LIBERTY BRAVES SERIES C	BATRK
LIBERTY BROADBAND SERIES A	LBRDA
LIBERTY BROADBAND SERIES C	LBRDK
LIBERTY FORMULA ONE SERIES A	FWONA
LIBERTY FORMULA ONE SERIES C	FWONK
LIBERTY LATIN AMERICA A	LILA
LIBERTY LATIN AMERICA C	LILAK
LIBERTY OILFIELD SERVICES	LBRT
LIBERTY SIRIUSXM SERIES A	LSXMA
LIBERTY SIRIUSXM SERIES C	LSXMK

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Company	Ticker
LAKELAND FINANCIAL	LKFN
LAM RESEARCH	LRCX
LAMAR ADVERTISING	LAMR
LAMB WESTON HOLDINGS	LW
LANCASTER COLONY	LANC
LANDEC CORP	LNDC
LANDOS BIOPHARMA	LABP
LANDS END	LE
LANDSEA HOMES CORP (A)	LSEA
LANDSTAR SYS	LSTR
LANTHEUS HOLDINGS	LNTH
LAREDO PETROLEUM	LPI
LAS VEGAS SANDS	LVS
LATHAM GROUP	SWIM
LATTICE SEMICONDUCTOR	LSCC
LA-Z-BOY INC	LZB
LITTELFUSE	LFUS
LIVANOVA	LIVN
LIVE NATION ENTERTAINMENT	LYV
LIVE OAK BANCSHARES	LOB
LIVENT	LTHM
LIVEPERSON INC	LPSN
LIVERAMP HOLDINGS	RAMP
LIVEXLIVE MEDIA	LIVX
LKQ	LKQ
LOCKHEED MARTIN CORP	LMT
LOEW'S	L
LORAL SPACE & COMMUNICATIONS	LORL
LORDSTOWN MOTORS CORP (A)	RIDE
LOUISIANA-PACIFIC	LPX
LOVESAC	LOVE
LOWES COS INC	LOW
LPL FINANCIAL HOLDINGS	LPLA
LTC PROPERTIES	LTC
LULULEMON ATHLETICA INC.	LULU
LUMBER LIQUIDATORS HOLDINGS	LL
LUMEN TECHNOLOGIES INC	LUMN
LUMENTUM HOLDINGS	LITE
LUMINEX CORP	LMNX
LUNA INNOVATIONS	LUNA
LUTHER BURBANK	LBC
LUXFER HOLDINGS	LXFR
LYDALL INC	LDL
LYFT	LYFT
LYONDELLBASELL INDUSTRIES CL A	LYB
M&T BANK	MTB
M/I HOMES	MHO
MACATAWA BANK	MCBC

Company	Ticker
LIBERTY TRIPADVISOR HOLDINGS	LTRPA
LIFE STORAGE	LSI
LIFETIME BRANDS	LCUT
LIGAND PHARM B	LGND
LILLY (ELI) & CO	LLY
LIMELIGHT NETWORKS	LLNW
LIMONEIRA CO.	LMNR
LINCOLN ELECTRIC HOLDINGS	LECO
LINCOLN NATIONAL CORP	LNC
LINDBLAD EXPEDITIONS HOLDINGS	LIND
LINDSAY CORPORATION	LNN
LINEAGE CELL THERAPEUTICS	LCTX
LIONS GATE ENTERTAINMENT CLASS A	LGF.A
LIONS GATE ENTERTAINMENT CLASS B	LGF.B
LIQUIDITY SERVICES	LQDT
LITHIA MOTORS	LAD
MANNKIND	MNKD
MANPOWERGROUP	MAN
MANTECH INTL CORP	MANT
MARATHON DIGITAL HOLDINGS INC	MARA
MARATHON OIL CORP	MRO
MARATHON PETROLEUM	MPC
MARAVAI LIFESCIENCES HOLDINGS	MRVI
MARCUS & MILLICHAP	MMI
MARCUS CORPORATION	MCS
MARINE PRODUCTS	MPX
MARINEMAX INC	HZO
MARINUS PHARMACEUTICALS INC	MRNS
MARKEL CORP	MKL
MARKETAXESS HOLDINGS	MKTX
MARLIN BUSINESS SERVICES	MRLN
MARRIOTT INTERNATIONAL	MAR
MARRIOTT VACATIONS WORLDWIDE	VAC
MARRONE BIO INNOVATIONS INC	MBII
MARSH & MCLENNAN	MMC
MARTEN TRANSPORT	MRTN
MARTIN MERIETTA MATERIALS	MLM
MARVELL TECHNOLOGY	MRVL
MASCO CORP	MAS
MASIMO	MASI
MASONITE INTERNATIONAL CORP	DOOR
MASTEC INC	MTZ
MASTERCARD CL A	MA
MASTERCRAFT BOAT HOLDINGS	MCFT
MATADOR RESOURCES	MTDR
MATCH GROUP	MTCH
MATERION	MTRN
MATRIX SERVICE	MTRX

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## Russell 3000® Index

Company	Ticker
MACERICH	MAC
MACK CALI REALTY	CLI
MACOM TECHNOLOGY SOLUTIONS HOLDINGS	MTSI
MACQUARIE INFRASTRUCTURE	MIC
MACROGENICS	MGNX
MACYS	M
MADISON SQUARE GARDEN ENTERTAINMENT	MSGE
MADISON SQUARE GARDEN SPORTS CORP	MSGS
MADRIGAL PHARMACEUTICALS	MDGL
MAGELLAN HEALTH	MGLN
MAGENTA THERAPEUTICS	MGTA
MAGNITE INC	MGNI
MAGNOLIA OIL & GAS CORPORATION (A)	MGY
MAIDEN HOLDINGS LTD.	MHLD
MALIBU BOATS	MBUU
MANHATTAN ASSOC	MANH
MANITOWOC CO	MTW
MEDALLIA	MDLA
MEDAVAIL HOLDINGS INC	MDVL
MEDIAALPHA	MAX
MEDICAL PROPERTIES TRUST	MPW
MEDIFAST INC	MED
MEDNAX	MD
MEDPACE HOLDINGS	MEDP
MEDTRONIC PLC	MDT
MEI PHARMA	MEIP
MEIRAGTX HOLDINGS PLC	MGTX
MERCANTILE BANK	MBWM
MERCHANTS BANCORP	MBIN
MERCK & CO	MRK
MERCURY GENERAL	MCY
MERCURY SYSTEMS	MRCY
MEREDITH CORP	MDP
MERIDIAN BANCORP	EBSB
MERIDIAN BIOSCIENCE	VIVO
MERIT MEDICAL SYSTEMS	MMSI
MERITAGE HOMES	MTH
MERITOR	MTOR
MERSANA THERAPEUTICS	MRSN
MESA AIR GROUP	MESA
MESA LAB	MLAB
META FINANCIAL GROUP	CASH
METHODE ELECTRONICS	MEI
METLIFE	MET
METROCITY BANKSHARES	MCBS
METROMILE INC (A)	MILE
METROPOLITAN BANK HOLDING	MCB
METTLER-TOLEDO	MTD

Company	Ticker
MATSON INC.	MATX
MATTEL	MAT
MATTHEWS INTL A	MATW
MAXAR TECHNOLOGIES	MAXR
MAXIM INTEGRATED PROD.	MXIM
MAXIMUS	MMS
MAXLINEAR	MXL
MAYVILLE ENGINEERING	MEC
MBIA	MBI
MCAFFEE	MCFE
MCCORMICK & CO	MKC
MCDONALDS CORP	MCD
MCGRATH RENT CORP	MGRC
MCKESSON	MCK
MDC HOLDINGS INC	MDC
MDC PARTNERS INC. CL A	MDCA
MDU RESOURCES	MDU
MIMEDX GROUP	MDXG
MIND MEDICINE MINDMED	MNMD
MINERALS TECH	MTX
MIRATI THERAPEUTICS INC	MRTX
MIRUM PHARMACEUTICALS	MIRM
MISONIX INC	MSON
MISSION PRODUCE	AVO
MISTRAS GROUP	MG
MITEK SYSTEMS	MITK
MKS INSTRUMENTS	MKSI
MODEL N INC	MODN
MODERNA	MRNA
MODINE MANUFACTURING CO	MOD
MODIVCARE INC	MODV
MOELIS & COMPANY	MC
MOHAWK INDUSTRIES	MHK
MOLECULAR TEMPLATES	MTEM
MOLINA HEALTHCARE	MOH
MOLSON COORS BEVERAGE COMPANY	TAP
MOMENTIVE GLOBAL INC	MNTV
MONARCH CASINO	MCRI
MONDELEZ INTERNATIONAL INC.	MDLZ
MONEYGRAM INTERNATIONAL	MGI
MONGODB	MDB
MONMOUTH REIT CL A	MNR
MONOLITHIC POWER SYSTEMS	MPWR
MONRO	MNRO
MONSTER BEVERAGE	MNST
MONTROSE ENVIRONMENTAL GROUP	MEG
MOODYS CORPORATION	MCO
MOOG INC A	MOG.A

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Company	Ticker
MFA FINANCIAL	MFA
MGE ENERGY	MGEE
MGIC INVESTMENT	MTG
MGM RESORTS INTERNATIONAL	MGM
MGP INGREDIENTS	MGPI
MICROCHIP TECHNOLOGY	MCHP
MICRON TECHNOLOGY	MU
MICROSOFT CORP	MSFT
MICROSTRATEGY CLASS A	MSTR
MICROVISION INC	MVIS
MID PENN BANC	MPB
MID-AMERICA APARTMENT COMM	MAA
MIDDLEBY	MIDD
MIDDLESEX WATER	MSEX
MIDLAND STATES BANCORP	MSBI
MIDWESTONE FINANCIAL GROUP	MOFG
MILLER INDS	MLR
MIMECAST	MIME
MURPHY USA	MUSA
MUSTANG BIO	MBIO
MVB FINANCIAL CORP	MVBF
MYERS INDUSTRIES INC	MYE
MYR GROUP INC.	MYRG
MYRIAD GENETICS	MYGN
NABORS INDUSTRIES	NBR
NANOSTRING TECHNOLOGIES	NSTG
NANTHEALTH	NH
NAPCO SECURITY SYSTEMS	NSSC
NASDAQ	NDAQ
NATERA	NTRA
NATHANS FAMOUS	NATH
NATIONAL BANK HOLDINGS	NBHC
NATIONAL BEVERAGE	FIZZ
NATIONAL CINEMEDIA	NCMI
NATIONAL ENERGY SERVICES REUNITED	NESR
NATIONAL HEALTH INVESTORS	NHI
NATIONAL HEALTHCARE	NHC
NATIONAL INSTRUMENTS	NATI
NATIONAL PRESTO	NPK
NATIONAL RESEARCH	NRC
NATIONAL RETAIL PROPERTIES	NNN
NATIONAL STORAGE AFFILIATES TRUST	NSA
NATIONAL VISION HOLDINGS	EYE
NATIONAL WESTERN LIFE GROUP - CL A	NWLI
NATL FUEL GAS CO	NFG
NATURAL GROCERS BY VITAMIN COTTAGE INC	NGVC
NATURES SUNSHINE PRODUCTS	NATR
NATUS MEDICAL	NTUS

Company	Ticker
MORGAN STANLEY	MS
MORNINGSTAR INC.	MORN
MORPHIC HOLDINGS	MORF
MOSAIC COMPANY	MOS
MOTORCAR PARTS OF AMERICA INC.	MPAA
MOTOROLA SOLUTIONS	MSI
MOVADO GROUP	MOV
MP MATERIALS CORP (A)	MP
MR. COOPER GROUP	COOP
MRC GLOBAL	MRC
MSA SAFETY	MSA
MSC INDUSTRIAL A	MSM
MSCI	MSCI
MSG NETWORKS	MSGN
MUELLER INDS	MLI
MUELLER WATER PRODUCTS	MWA
MULTIPLAN CORPORATION (A)	MPLN
MURPHY OIL CORP	MUR
NEUROCRINE BIOSCIENCES	NBIX
NEURONETICS	STIM
NEUROPACE	NPCE
NEVRO	NVRO
NEW FORTRESS ENERGY	NFE
NEW JERSEY RES	NJR
NEW RELIC	NEWR
NEW RESIDENTIAL INVESTMENT CORP.	NRZ
NEW SENIOR INVESTMENT GROUP	SNR
NEW YORK COMMUNITY BANCORP	NYCB
NEW YORK MORTGAGE TRUST	NYMT
NEW YORK TIMES CL A	NYT
NEWAGE INC	NBEV
NEWELL BRANDS	NWL
NEWMARK GROUP	NMRK
NEWMARKET	NEU
NEWMONT CORPORATION	NEM
NEWPARK RESOURCES	NR
NEWS CORPORATION CL A	NWSA
NEWS CORPORATION CL B	NWS
NEXIMMUNE	NEXI
NEXPOINT RESIDENTIAL TRUST	NXRT
NEXSTAR MEDIA GROUP INC.	NXST
NEXTERA ENERGY INC	NEE
NEXTGEN HEALTHCARE INC	NXGN
NEXTier OILFIELD SOLUTIONS INC	NEX
NGM BIOPHARMACEUTICALS	NGM
NI HOLDINGS	NODK
NICOLET BANKSHARES INC	NCBS
NIELSEN HOLDINGS	NLSN

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Company	Ticker
NAUTILUS	NLS
NAVIENT CORP	NAVI
NAVISTAR INTERNATIONAL	NAV
NBT BANCORP INC.	NBTB
NCINO	NCNO
NCR CORP	NCR
NEENAH	NP
NEKTAR THERAPEUTICS	NKTR
NELNET CLASS A	NNI
NEOGAMES	NGMS
NEOGEN CORP	NEOG
NEOGENOMICS INC.	NEO
NEOLEUKIN THERAPEUTICS	NLTX
NEOPHOTONICS	NPTN
NETAPP	NTAP
NETFLIX INC	NFLX
NETGEAR INC.	NTGR
NETSCOUT SYS	NTCT
NETSTREIT	NTST
NORTHWEST NATURAL HOLDING COMPANY	NWN
NORTHWEST PIPE	NWPX
NORTHWESTERN CORP	NWE
NORTONLIFELOCK INC	NLOK
NORWEGIAN CRUISE LINE	NCLH
NOV INC	NOV
NOVAGOLD RESOURCES INC.	NG
NOVANTA INC	NOVT
NOVAVAX	NVAX
NOVOCURE	NVCR
NOW INC.	DNOW
NRG ENERGY	NRG
NU SKIN ENTERPR A	NUS
NUANCE COMMUNICATIONS	NUAN
NUCOR CORP	NUE
NURIX THERAPEUTICS	NRIX
NUTANIX	NTNX
NUVASIVE	NUVA
NUVATION BIO INC (A)	NUVB
NV5 GLOBAL INC.	NVEE
NVE CORP	NVEC
NVENT ELECTRIC	NVT
NVIDIA	NVDA
NVR INC	NVR
NXP SEMICONDUCTORS	NXPI
O REILLY AUTO	ORLY
OAK STREET HEALTH	OSH
OASIS PETROLEUM	OAS
OCCIDENTAL PETROLEUM	OXY

Company	Ticker
NIKE INC CL B	NKE
NIKOLA CORPORATION	NKLA
NISOURCE	NI
NKARTA	NKTX
NL INDUSTRIES	NL
NLIGHT	LASR
NMI HOLDINGS INC	NMIH
NN INC	NNBR
NOODLES & COMPANY	NDLS
NORDIC AMERICAN TANKER	NAT
NORDSON CP	NDSN
NORDSTROM	JWN
NORFOLK STHN CORP	NSC
NORTHERN OIL AND GAS	NOG
NORTHERN TRUST	NTRS
NORTHFIELD BANCORP INC.	NFBK
NORTHRIM BANCORP	NRIM
NORTHROP GRUMMAN CORP	NOC
NORTHWEST BANCSHARES	NWBI
OMEGA FLEX	OFLX
OMEGA HEALTHCARE INVESTORS	OHI
OMEROS	OMER
OMNICELL INC	OMCL
OMNICOM GROUP	OMC
ON SEMICONDUCTOR CORP	ON
ON24	ONTF
ONCOCYTE	OCX
ONCORUS	ONCR
ONCTERNAL THERAPEUTICS INC	ONCT
ONE GAS	OGS
ONE GROUP HOSPITALITY	STKS
ONE LIBERTY	OLP
ONEMAIN HOLDINGS	OMF
ONEOK INC	OKE
ONESPAN	OSPN
ONESPANWORLD HOLDINGS (A)	OSW
ONEWATER MARINE	ONEW
ONTO INNOVATION INC	ONTO
ONTRAK INC	OTRK
OOMA	OOMA
OPEN LENDING CORPORATION (A)	LPRO
OPENDOOR TECHNOLOGIES INC (A)	OPEN
OPKO HEALTH	OPK
OPORTUN FINANCIAL	OPRT
OPPENHEIMER HOLDINGS INC.	OPY
OPTIMIZERX CORP	OPRX
OPTION CARE HEALTH INC	OPCH
ORACLE CORP.	ORCL

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Company	Ticker
OCEANEERING INTL	OII
OCEANFIRST FINANCIAL	OCFC
OCUGEN INC	OCGN
OCULAR THERAPEUTIX	OCUL
OCWEN FINL CORP	OCN
OFFICE PROPERTIES INCOME TRUST	OPI
OFG BANCORP	OFG
OGE ENERGY	OGE
O-I GLASS INC	OI
OIL DRI CP	ODC
OIL STATES INTL	OIS
OKTA	OKTA
OLD DOMINION FREIGHT LINE	ODFL
OLD NATL BNCP	ONB
OLD REPUBLIC INTL	ORI
OLD SECOND BNCP	OSBC
OLEMA PHARMACEUTICALS	OLMA
OLIN CORP	OLN
OLLIE'S BARGAIN OUTLET HOLDINGS	OLLI
OLYMPIC STEEL	ZEUS
OUTLOOK THERAPEUTICS	OTLK
OUTSET MEDICAL	OM
OVERSTOCK.COM	OSTK
OVINTIV INC	OVV
OWENS & MINOR	OMI
OWENS CORNING	OC
OXFORD INDUSTRIES	OXM
OYSTER POINT PHARMA	OYST
P.A.M. TRANS SVC	PTSI
PACCAR	PCAR
PACIFIC BIOSCIENCES OF CALIFORNIA	PACB
PACIFIC PREMIER BANCORP INC	PPBI
PACIRA BIOSCIENCES	PCRX
PACKAGING CORP OF AMERICA	PKG
PACTIV EVERGREEN	PTVE
PACWEST BANCORP	PACW
PAE INCORPORATED (A)	PAE
PAGERDUTY	PD
PALANTIR TECHNOLOGIES	PLTR
PALO ALTO NETWORKS	PANW
PALOMAR HOLDINGS	PLMR
PAPA JOHN'S INTERNATIONAL	PZZA
PAR PACIFIC HOLDINGS	PARR
PAR TECHNOLOGY	PAR
PARAMOUNT GROUP	PGRE
PARATEK PHARMACEUTICALS	PRTK
PARK AEROSPACE	PKE
PARK HOTELS & RESORTS	PK

Company	Ticker
ORAMED PHARMACEUTICALS	ORMP
ORASURE TECH	OSUR
ORBCOMM	ORBC
ORCHID ISLAND CAPITAL	ORC
ORGANOGENESIS HOLDINGS (A)	ORGO
ORGANON	OGN
ORIC PHARMACEUTICALS	ORIC
ORIGIN BANCORP	OBNK
ORION ENGINEERED CARBONS S.A.	OEC
ORMAT TECHNOLOGIES	ORA
ORRSTOWN FINANCIAL SERVICES INC.	ORRF
ORTHO CLINICAL DIAGNOSTICS HOLDINGS	OCDX
ORTHOFIX MEDICAL	OFIX
ORTHOPEDIATRICS	KIDS
OSHKOSH	OSK
OSI SYSTEMS INC	OSIS
OTIS WORLDWIDE	OTIS
OTTER TAIL CP	OTTR
OUSTER INC (A)	OUST
OUTFRONT MEDIA	OUT
PEABODY ENERGY CORP	BTU
PEAPACK GLADSTONE FINANCIAL	PGC
PEBBLEBROOK HOTEL TRUST	PEB
PEGASYSTEMS INC	PEGA
PELTON INTERACTIVE	PTON
PENN NATIONAL GAMING	PENN
PENN VIRGINIA	PVAC
PENNANT GROUP	PNTG
PENNYMAC FINANCIAL SERVICES	PFSI
PENNYMAC MORTGAGE INVESTMENT TRUST	PMT
PENSKE AUTOMOTIVE GROUP	PAG
PENTAIR PLC	PNR
PENUMBRA	PEN
PEOPLES BANCORP	PEBO
PEOPLES FINANCIAL SERVICES CORP.	PFIS
PEOPLE'S UNITED FINANCIAL	PBCT
PEPSICO	PEP
PERDOCEO EDUCATION CORP	PRDO
PERFICIENT INC	PRFT
PERFORMANCE FOOD GROUP	PFGC
PERKINELMER INC	PKI
PERPETUA RESOURCES	PPTA
PERRIGO COMPANY PLC	PRGO
PERSONALIS	PSNL
PETCO HEALTH AND WELLNESS	WOOF
PETIQ	PETQ
PETMED EXPRESS	PETS
PFIZER	PFE

# Membership list

## Russell 3000® Index

Company	Ticker
PARK NATIONAL	PRK
PARK OHIO HOLDINGS	PKOH
PARKER-HANNIFIN	PH
PARSONS	PSN
PARTY CITY HOLDCO	PRTY
PASSAGE BIO	PASG
PATRICK INDUSTRIES	PATK
PATTERSON COS	PDCO
PATTERSON-UTI ENERGY	PTEN
PAVMED INC	PAVM
PAYA HOLDINGS INC (A)	PAYA
PAYCHEX	PAYX
PAYCOM SOFTWARE	PAYC
PAYLOCITY HOLDING	PCTY
PAYPAL HOLDINGS	PYPL
PAYSAFE LIMITED (A)	PSFE
PBF ENERGY	PBF
PC CONNECTION	CNXN
PCSB FINANCIAL	PCSB
PDC ENERGY	PDCE
PDF SOLUTIONS	PDFS
PLANTRONICS	POLY
PLAYAGS	AGS
PLAYTIKA HOLDING	PLTK
PLBY GROUP INC	PLBY
PLEXUS CORP	PLXS
PLIANT THERAPEUTICS	PLRX
PLUG POWER INC	PLUG
PLYMOUTH INDUSTRIAL REIT	PLYM
PMV PHARMACEUTICALS	PMVP
PNC FINANCIAL SERVICES GROUP	PNC
PNM RESOURCES	PNM
POLARIS	PII
POLYMET MINING	PLM
POOL	POOL
POPULAR INC	BPOP
PORCH GROUP INC (A)	PRCH
PORTAGE BIOTECH	PRTG
PORTLAND GENERAL ELECTRIC	POR
POSEIDA THERAPEUTICS	PSTX
POST HOLDINGS	POST
POSTAL REALTY TRUST	PSTL
POTLATCHDELTIC	PCH
POWELL INDS	POWL
POWER INTEGRATIONS	POWI
PPD	PPD
PPG INDUSTRIES	PPG
PPL CORPORATION	PPL

Company	Ticker
PG & E CORP.	PCG
PGT INNOVATIONS	PGTI
PHATHOM PHARMACEUTICALS	PHAT
PHIBRO ANIMAL HEALTH	PAHC
PHILIP MORRIS INTERNATIONAL	PM
PHILLIPS 66	PSX
PHOTRONICS INC	PLAB
PHREESIA	PHR
PHYSICIANS REALTY TRUST	DOC
PIEDMONT OFFICE REALTY TRUST CL A	PDM
PILGRIM'S PRIDE CORP.	PPC
PING IDENTITY HOLDING	PING
PINNACLE FINL	PNFP
PINNACLE WEST CAPITAL CORP	PNW
PINTEREST	PINS
PIONEER BANCORP	PBFS
PIONEER NATURAL RESOURCE	PXD
PIPER SANDLER COMPANIES	PIPR
PITNEY BOWES	PBI
PJT PARTNERS	PJT
PLANET FITNESS	PLNT
PRIVIA HEALTH GROUP	PRVA
PROASSURANCE	PRA
PROCTER & GAMBLE	PG
PROG HOLDINGS INC	PRG
PROGRESS SOFTWARE	PRGS
PROGRESSIVE CORP	PGR
PROGYNY	PGNY
PROLOGIS	PLD
PROMETHEUS BIOSCIENCES	RXDX
PROOFPOINT	PFPT
PROPETRO HOLDING	PUMP
PROS HOLDINGS INC.	PRO
PROSIGHT GLOBAL	PROS
PROSPERITY BANCSHARES	PB
PROTAGONIST THERAPEUTICS	PTGX
PROTHENA PLC	PRTA
PROTO LABS INC	PRLB
PROVENTION BIO	PRVB
PROVIDENT BANCORP INC	PVBC
PROVIDENT FINANCIAL SERVICES INC	PFS
PRUDENTIAL FINANCIAL	PRU
PS BUSINESS PARKS	PSB
PTC	PTC
PTC THERAPEUTICS	PTCT
PUBLIC STORAGE	PSA
PUBLIC SVC ENTERPRISE GROUP	PEG
PULMONX	LUNG

# Membership list

## Russell 3000® Index

Company	Ticker
PQ GROUP HOLDINGS	PQG
PRA GROUP	PRAA
PRA HEALTH SCIENCES	PRAH
PRAXIS PRECISION MEDICINES	PRAX
PRECIGEN	PGEN
PRECISION BIOSCIENCES	DTIL
PREFERRED APARTMENT COMMUNITIES	APTS
PREFERRED BANK LOS ANGELES	PFBC
PREFORMED LINE PRODUCTS	PLPC
PRELUDE THERAPEUTICS	PRLD
PREMIER FINANCIAL CORP	PFC
PREMIER FINCL	PFBI
PREMIER INC	PINC
PRESTIGE CONSUMER HEALTHCARE	PBH
PRICE (T. ROWE) GROUP	TROW
PRICESMART	PSMT
PRIMERICA	PRI
PRIMIS FINANCIAL CORP	FRST
PRIMO WATER	PRMW
PRIMORIS SERVICES CORP.	PRIM
PRINCIPAL FINANCIAL GROUP	PFG
PRIORITY TECHNOLOGY HOLDINGS	PRTH
QUANTUMSCAPE	QS
QUEST DIAGNOSTICS	DGX
QUIDEL CORP	QDEL
QUINSTREET	QNST
QUOTIENT LTD	QTNT
QUOTIENT TECHNOLOGY INC.	QUOT
QURATE RETAIL	QRTEA
RACKSPACE TECHNOLOGY	RXT
RADIAN GROUP	RDN
RADIANT LOGISTICS	RLGT
RADIUS GLOBAL INFRASTRUCTURE	RADI
RADIUS HEALTH INC	RDUS
RADNET	RDNT
RAFAEL HOLDINGS CL B	RFL
RAIN THERAPEUTICS	RAIN
RALPH LAUREN CORP	RL
RAMBUS INC	RMBS
RANGE RESOURCES	RRC
RANPAK HOLDINGS (A)	PACK
RAPID7	RPD
RAPT THERAPEUTICS	RAPT
RAVEN INDUSTRIES	RAVN
RAYMOND JAMES FINANCIAL	RJF
RAYONIER	RYN
RAYONIER ADVANCED MATERIALS	RYAM
RAYTHEON TECHNOLOGIES CORPORATION	RTX

Company	Ticker
PULSE BIOSCIENCES	PLSE
PULTE GROUP	PHM
PUMA BIOTECHNOLOGY INC	PBYI
PURE STORAGE	PSTG
PURECYCLE	PCYO
PURECYCLE TECHNOLOGIES INC	PCT
PURPLE INNOVATION	PRPL
PVH CORP.	PVH
PZENA INVESTMENT MANAGEMENT	PZN
Q2 HOLDINGS	QTWO
QAD CLASS A	QADA
QCR HOLDINGS INC	QCRH
QIAGEN N.V.	QGEN
QORVO INC.	QRVO
QTS REALTY TRUST	QTS
QUAKER CHEM	KWR
QUALCOMM	QCOM
QUALYS INC	QLYS
QUANEX BUILDING PRODUCTS	NX
QUANTA SERVICES	PWR
QUANTERIX CORP	QTRX
QUANTUM	QMCO
RELAY THERAPEUTICS	RLAY
RELIANCE STEEL & ALUMINIUM	RS
RELIANT BANCORP	RBNC
RELMADA THERAPEUTICS	RLMD
RENAISSANCERE	RNR
RENASANT CORP	RNST
RENEO PHARMACEUTICALS	RPHM
RENEWABLE ENERGY GROUP	REGI
RENT-A-CENTER	RCII
REP FIRST BANC	FRBK
REPAY HOLDINGS (A)	RPAY
REPLIGEN CORP	RGEN
REPLIMUNE GROUP	REPL
REPUBLIC BANCORP	RBCAA
REPUBLIC SERVICES	RSG
RESIDEO TECHNOLOGIES	REZI
RESMED INC	RMD
RESOURCES CONNECTION INC	RGP
RETAIL OPPORTUNITY	ROIC
RETAIL PROPERTIES OF AMERICA	RPAI
RETAIL VALUE	RVI
RETRACTABLE TECHNOLOGIES INC	RVP
REV GROUP	REVG
REVANCE THERAPEUTICS	RVNC
REVLON CLASS A	REV
REVOLUTION MEDICINES	RVMD



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Company	Ticker
RBB BANCORP	RBB
RBC BEARINGS	ROLL
RCI HOSPITALITY HOLDINGS	RICK
RE/MAX HOLDINGS	RMAX
READY CAPITAL CORPORATION	RC
REALOGY HOLDINGS	RLGY
REALTY INCOME	O
REATE PHARMACEUTICALS	RETA
RECURSION PHARMACEUTICALS	RXRX
RED RIVER BANCSHARES	RRBI
RED ROBIN GOURMET BURGERS	RRGB
RED ROCK RESORTS	RRR
REDFIN CORP	RDFN
REDWOOD TRUST	RWT
REGAL BELOIT	RBC
REGENCY CENTERS	REG
REGENERON PHAR	REGN
REGENXBIO	RGNX
REGIONAL MANAGEMENT CORP	RM
REGIONS FINANCIAL	RF
REGIS CORP	RGS
REINSURANCE GROUP OF AMERICA	RGA
REKOR SYSTEMS	REKR
ROKU	ROKU
ROLLINS INC	ROL
ROMEO POWER INC (A)	RMO
ROPER TECHNOLOGIES	ROP
ROSS STORES	ROST
ROYAL CARIBBEAN GROUP	RCL
ROYAL GOLD	RGLD
ROYALTY PHARMA	RPRX
RPC	RES
RPM INC	RPM
RPT REALTY	RPT
RUBIUS THERAPEUTICS	RUBY
RUSH ENTERPRISES A	RUSHA
RUSH ENTERPRISES INC -CL B	RUSHB
RUSH STREET INTERACTIVE INC (A)	RSI
RUTHS HOSPITALITY GROUP	RUTH
RYDER SYSTEM	R
RYERSON HOLDING CORP	RYI
RYMAN HOSPITALITY PROPERTIES	RHP
S&P GLOBAL	SPGI
S&T BANCORP	STBA
SABRA HEALTH CARE REIT	SBRA
SABRE CORP	SABR
SAFE BULKERS	SB
SAFEHOLD INC	SAFE

Company	Ticker
REVOLVE GROUP	RVLV
REX AMERICAN RESOURCES	REX
REXFORD INDUSTRIAL REALTY	REXR
REXNORD	RXN
REYNOLDS CONSUMER PRODUCTS	REYN
RH	RH
RHYTHM PHARMACEUTICALS	RYTM
RIBBON COMMUNICATIONS	RBBN
RIGEL PHARMACEUTICALS INC	RIGL
RILEY EXPLORATION PERMIAN	REPX
RIMINI STREET	RMNI
RINGCENTRAL	RNG
RIOT BLOCKCHAIN	RIOT
RITE AID	RAD
RLI CORPORATION	RLI
RLJ LODGING TRUST	RLJ
RMR GROUP	RMR
ROBERT HALF INTERNATIONAL	RHI
ROCKET COMPANIES	RKT
ROCKET PHARMACEUTICALS	RCKT
ROCKWELL AUTOMATION	ROK
ROCKY BRANDS	RCKY
ROGERS CORP	ROG
SCHWAB (CHARLES) CORP	SCHW
SCHWEITZER-MAUDUIT INTL	SWM
SCIENCE APPLICATIONS INTERNATIONAL CORPO	SAIC
SCIENTIFIC GAMES CORP	SGMS
SCORPIO TANKERS	STNG
SCOTTS MIRACLE-GRO	SMG
SCRIPPS (E.W) CLASS A	SSP
SCULPTOR CAPITAL MANAGEMENT INC (A)	SCU
SEABOARD	SEB
SEACOAST BANKING	SBCF
SEAGEN INC	SGEN
SEALED AIR	SEE
SEASPINE HOLDINGS CORP.	SPNE
SEAWORLD ENTERTAINMENT	SEAS
SECUREWORKS	SCWX
SEELOS THERAPEUTICS	SEEL
SEER	SEER
SEI INVEST CO	SEIC
SELECT ENERGY SERVICES	WTRR
SELECT MEDICAL HOLDINGS	SEM
SELECTA BIOSCIENCES	SELB
SELECTIVE INSURANCE GROUP	SIGI
SELECTQUOTE	SLQT
SEMPRA ENERGY	SRE
SEMTECH CORP	SMTC

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Company	Ticker
SAFETY INSURANCE GROUP INC	SAFT
SAGE THERAPEUTICS	SAGE
SAIA	SAIA
SAILPOINT TECHNOLOGIES	SAIL
SALESFORCE.COM	CRM
SALLY BEAUTY	SBH
SANA BIOTECHNOLOGY	SANA
SANDERSON FARMS	SAFM
SANDY SPRING BANCORP	SASR
SANFILIPP & SON	JBSS
SANGAMO THERAPEUTICS	SGMO
SANMINA CORP	SANM
SANTANDER CONSUMER USA HOLDINGS	SC
SAPIENS INTERNATIONAL CORP	SPNS
SAREPTA THERAPEUTICS	SRPT
SAUL CENTERS	BFS
SBA COMMUNICATIONS	SBAC
SCANSOURCE	SCSC
SCHLUMBERGER	SLB
SCHNEIDER NATIONAL CL B	SNDR
SCHNITZER STEEL	SCHN
SCHOLAR ROCK HOLDING CORPORATION	SRRK
SCHOLASTIC CORP	SCHL
SCHRODINGER	SDGR
SHUTTERSTOCK INC	SSTK
SI-BONE	SIBN
SIENTRA	SIEN
SIERRA BANCORP/CA	BSRR
SIGA TECH INC	SIGA
SIGILON THERAPEUTICS	SGTX
SIGNATURE BANK	SBNY
SIGNET JEWELERS	SIG
SIGNIFY HEALTH	SGFY
SILGAN HLDG INC	SLGN
SILICON LABS	SLAB
SILK ROAD MEDICAL	SILK
SILVERBACK THERAPEUTICS	SBTX
SILVERGATE CAPITAL	SI
SIMMONS FIRST NATIONAL CORP - CL A	SFNC
SIMON PROPERTY GROUP	SPG
SIMPLY GOOD FOODS	SMPL
SIMPSON MANUFACTURING	SSD
SIMULATIONS PLUS	SLP
SINCLAIR BROADCAST A	SBGI
SIRIUS XM HOLDINGS	SIRI
SIRIUSPOINT LTD	SPNT
SITE CENTERS	SITC
SITEONE LANDSCAPE SUPPLY	SITE

Company	Ticker
SENECA FOOD A	SENEA
SENSATA TECHNOLOGIES HOLDING PLC	ST
SENSEI BIOTHERAPEUTICS	SNSE
SENSEONICS HOLDINGS	SENS
SENSIENT TECH	SXT
SERES THERAPEUTICS	MCRB
SERITAGE GROWTH PROPERTIES	SRG
SERVICE CORP INTL	SCI
SERVICE PROPERTIES TRUST	SVC
SERVICENOW	NOW
SERVISFIRST BANCSHARES	SFBS
SESEN BIO	SESN
SFL CORPORATION LTD	SFL
SHAKE SHACK	SHAK
SHARPS COMPLIANCE	SMED
SHATTUCK LABS	STTK
SHENANDOAH TELECOMS	SHEN
SHERWIN-WILLIAMS	SHW
SHIFT TECHNOLOGIES INC (A)	SFT
SHIFT4 PAYMENTS	FOUR
SHOALS TECHNOLOGIES GROUP	SHLS
SHOCKWAVE MEDICAL	SWAV
SHOE CARNIVAL	SCVL
SHOTSPOTTER	SSTI
SOLID BIOSCIENCES	SLDB
SOLITON INC	SOLY
SONIC AUTOMOTIVE	SAH
SONOCO PRODUCTS	SON
SONOS INC	SONO
SORRENTO THERAPEUTICS INC	SRNE
SOTERA HEALTH	SHC
SOUTH JERSEY IND	SJI
SOUTH PLAINS FINANCIAL	SPFI
SOUTH STATE CORP	SSB
SOUTHERN CO	SO
SOUTHERN COPPER CORP.	SCCO
SOUTHERN FIRST BANCSHARES	SFST
SOUTHSIDE BANCSHARES	SBSI
SOUTHWEST AIRLINES	LUV
SOUTHWEST GAS HOLDINGS	SWX
SOUTHWESTERN ENERGY	SWN
SP PLUS	SP
SPARK ENERGY INC-CLASS A	SPKE
SPARTANNASH	SPTN
SPECTRUM BRANDS HOLDINGS	SPB
SPECTRUM PHARMACEUTICALS INC	SPPI
SPERO THERAPEUTICS	SPRO
SPIRE INC.	SR

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Company	Ticker
SITIME	SITM
SIX FLAGS ENTERTAINMENT CORP.	SIX
SJW GROUP	SJW
SKECHERS USA CL A	SKX
SKILLZ INC (A)	SKLZ
SKYLINE CHAMPION CORPORATION	SKY
SKYWATER TECHNOLOGY	SKYT
SKYWEST INC	SKYW
SKYWORKS SOLUTIONS INC	SWKS
SL GREEN REALTY	SLG
SLACK TECHNOLOGIES	WORK
SLEEP NUMBER	SNBR
SLM CORP	SLM
SM ENERGY	SM
SMART GLOBAL HOLDINGS	SGH
SMARTFINANCIAL INC	SMBK
SMARTSHEET	SMAR
SMITH (AO)	AOS
SMITH AND WESSON BRANDS INC	SWBI
SMITH MICRO SOFTWARE	SMSI
SNAP-ON INC	SNA
SNOWFLAKE	SNOW
SOC TELEMED INC (A)	TLMD
SOLARIS OILFIELD INFRASTRUCTURE	SOI
SOLARWINDS	SWI
STARWOOD PROPERTY TRUST INC.	STWD
STATE AUTO FINANCIAL	STFC
STATE STREET CORP.	STT
STD MOTOR PRODS	SMP
STEEL DYNAMICS	STLD
STEELCASE INC	SCS
STEM INC (A)	STEM
STEPAN CO	SCL
STEPSTONE GROUP	STEP
STEREOTAXIS	STXS
STERICYCLE INC	SRCL
STERIS PLC	STE
STERLING BANCORP	STL
STERLING CONSTRUCTION CO INC	STRL
STEVEN MADDEN	SHOO
STEWART INFO	STC
STHN MISSOURI	SMBC
STIFEL FIN CORP	SF
STITCH FIX CLASS A	SFIX
STOCK YARDS BANCORP	SYBT
STOKE THERAPEUTICS	STOK
STONECO	STNE
STONEMOR INC	STON

Company	Ticker
SPIRIT AEROSYSTEMS HOLDINGS INC. CL A	SPR
SPIRIT AIRLINES	SAVE
SPIRIT OF TEXAS BANCSHARES	STXB
SPIRIT REALTY CAPITAL	SRC
SPLUNK	SPLK
SPORTMANS WAREHOUSE HOLDINGS	SPWH
SPOTIFY TECHNOLOGY SA	SPOT
SPRINGWORKS THERAPEUTICS	SWTX
SPROUT SOCIAL	SPT
SPROUTS FARMERS MARKET	SFM
SPRUCE BIOSCIENCES	SPRB
SPS COMMERCE	SPSC
SPX CORP	SPXC
SPX FLOW	FLOW
SQUARE CLASS A	SQ
SQZ BIOTECHNOLOGIES	SQZ
SS&C TECHNOLOGIES HOLDINGS	SSNC
ST JOE CO (THE)	JOE
STAAR SURGICAL	STAA
STAG INDUSTRIAL	STAG
STAMPS.COM INC	STMP
STANDEX INTL	SXI
STANLEY BLACK & DECKER	SWK
STARBUCKS	SBUX
STARTEK	SRT
SVB FINANCIAL GROUP	SIVB
SWITCH	SWCH
SYKES ENTERPRISES	SYKE
SYNAPTICS	SYNA
SYNCHRONY FINANCIAL	SYF
SYNDAX PHARMACEUTICALS	SNDX
SYNEOS HEALTH	SYNH
SYNNEX	SNX
SYNOPSYS INC	SNPS
SYNOVUS FINANCIAL CORP	SNV
SYROS PHARMACEUTICALS	SYRS
SYSCO CORP	SY
TABULA RASA HEALTHCARE	TRHC
TACTILE SYSTEMS TECHNOLOGY	TCMD
TAKE-TWO INTERACTIVE SOFTWARE	TTWO
TALARIS THERAPEUTICS	TALS
TALIS BIOMEDICAL	TLIS
TALOS ENERGY	TALO
TANDEM DIABETES CARE	TNDM
TANGER FACTORY OUTLET CENTER	SKT
TAPESTRY	TPR
TARGA RESOURCES CORP.	TRGP
TARGET CORP	TGT

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Company	Ticker
STONERIDGE	SRI
STONEX GROUP INC	SNEX
STORE CAPITAL REIT	STOR
STRATEGIC EDUCATION	STRA
STRIDE INC	LRN
STRYKER	SYK
STURM RUGER & CO	RGR
SUMMIT FINANCIAL GROUP	SMMF
SUMMIT HOTEL PROPERTIES	INN
SUMMIT MATERIALS	SUM
SUMMIT THERAPEUTICS INC	SMMT
SUMO LOGIC	SUMO
SUN COMMUNITIES	SUI
SUN COUNTRY AIRLINES HOLDINGS	SNCY
SUNCOKE ENERGY	SXC
SUNNOVA ENERGY INTERNATIONAL	NOVA
SUNPOWER CORPORATION	SPWR
SUNRUN	RUN
SUNSTONE HOTEL INVESTORS	SHO
SUPER MICRO COMPUTER	SMCI
SUPERIOR GROUP OF COMPANIES	SGC
SUPERNUS PHARMACEUTICALS	SUPN
SURFACE ONCOLOGY	SURF
SURGERY PARTNERS	SGRY
SURMODICS INC	SRDX
SUTRO BIOPHARMA	STRO
TEREX CORP	TEX
TERMINIX GLOBAL HOLDINGS INC	TMX
TERNS PHARMACEUTICALS	TERN
TERRENO REALTY	TRNO
TESLA	TSLA
TETRA TECH INC	TTEK
TETRA TECHNOLOGIES	TTI
TEXAS CAPITAL BANCSHARES	TCBI
TEXAS INSTRUMENTS	TXN
TEXAS PACIFIC LAND CORPORATION	TPL
TEXAS ROADHOUSE	TXRH
TEXTAINER GROUP HOLDINGS LTD.	TGH
TEXTRON	TXT
TFS FINANCIAL	TFSL
TG THERAPEUTICS INC	TGTX
THE AARONS COMPANY	AAN
THE AZEK COMPANY	AZEK
THE BANCORP	TBBK
THE BLACKSTONE GROUP INC	BX
THE CONTAINER STORE GROUP	TCS
THE FIRST BANCORP INC.	FNLC
THE HACKETT GROUP	HCKT

Company	Ticker
TARGET HOSPITALITY CORP (A)	TH
TARSUS PHARMACEUTICALS	TARS
TATTOOED CHEF INC (A)	TTCF
TAYLOR MORRISON HOME II CORPORATION	TMHC
TAYSHA GENE THERAPIES	TSHA
TCR2 THERAPEUTICS	TCRR
TEAM INC	TISI
TECHTARGET INC.	TTGT
TEEKAY	TK
TEEKAY TANKERS	TNK
TEGNA	TGNA
TEJON RANCH	TRC
TELADOC HEALTH	TDOC
TELEDYNE TECH	TDY
TELEFLEX INC	TFX
TELEPHONE & DATA SYSTEMS	TDS
TELLURIAN	TELL
TELOS	TLS
TEMPUR SEALY INTERNATIONAL	TPX
TENABLE HOLDINGS	TENB
TENET HEALTHCARE	THC
TENNANT CO	TNC
TENNECO	TEN
TERADATA	TDC
TERADYNE	TER
T-MOBILE US INC.	TMUS
TPG RE FINANCE TRUST	TRTX
TPI COMPOSITES	TPIC
TRACTOR SUPPLY	TSCO
TRADEWEB MARKETS	TW
TRANE TECHNOLOGIES PLC	TT
TRANSCAT	TRNS
TRANSDIGM	TDG
TRANSLATE BIO	TBIO
TRANSMEDICS GROUP	TMDX
TRANSUNION	TRU
TRAVEL PLUS LEISURE CO	TNL
TRAVELCENTERS OF AMERICA INC	TA
TRAVELERS COS INC.	TRV
TRAVERE THERAPEUTICS INC	TVTX
TREACE MEDICAL CONCEPTS	TMCI
TREAN INSURANCE GROUP	TIG
TREDEGAR CORP	TG
TREEHOUSE FOODS	THS
TREVENA	TRVN
TREX COMPANY	TREX
TRI POINTE HOMES INC	TPH
TRICO BANCSHARES	TCBK

# Membership list

## Russell 3000® Index

Company	Ticker
THE ODP CORPORATION	ODP
THE REALREAL	REAL
THE SHYFT GROUP INC	SHYF
THE TRADE DESK	TTD
THERAPEUTICSMD	TXMD
THERAVANCE BIOPHARMA	TBPH
THERMO FISHER SCIENTIFIC	TMO
THERMON GROUP HOLDINGS	THR
THOR INDUSTRIES	THO
THRYV HOLDINGS	THRY
TIDEWATER INC	TDW
TILLYS	TLYS
TIMKEN CO	TKR
TIMKENSTEEL CORP	TMST
TIPTREE INC	TIPT
TITAN INTL	TWI
TITAN MACHINERY	TITN
TIVITY HEALTH	TVTY
TJX COMPANIES	TJX
TOLL BROTHERS	TOL
TOMPKINS FINANCIAL	TMP
TONIX PHARMACEUTICALS HOLDING CORP	TNXP
TOOTSIE ROLL IND	TR
TOPBUILD	BLD
TORCHLIGHT ENERGY RESOURCES	TRCH
TORO CO	TTC
TOWNE BANK	TOWN
TUTOR PERINI	TPC
TWILIO	TWLO
TWIST BIOSCIENCE	TWST
TWITTER	TWTR
TWO HARBORS INVESTMENT	TWO
TYLER TECHNOLOGIES	TYL
TYSON FOODS INC A	TSN
U.S. CELLULAR CP	USM
U.S. LIME & MINERALS	USLM
U.S. XPRESS ENTERPRISES	USX
UBER TECHNOLOGIES	UBER
UBIQUITI	UI
UDR	UDR
UFP INDUSTRIES INC	UFPI
UFP TECHNOLOGIES	UFPT
UGI CORP HLDS	UGI
ULTA BEAUTY	ULTA
ULTRA CLEAN HOLDINGS	UCTT
ULTRAGENYX PHARMACEUTICAL	RARE
UMB FINL CO	UMBF
UMH PROPERTIES	UMH

Company	Ticker
TRILLIUM THERAPEUTICS	TRIL
TRIMAS CORP.	TRS
TRIMBLE	TRMB
TRINET GROUP	TNET
TRINITY INDS	TRN
TRINSEO S.A.	TSE
TRIPADVISOR	TRIP
TRIPLE-S MANAGEMENT CORP. CL B	GTS
TRISTATE CAPITAL HOLDINGS INC	TSC
TRITON INTERNATIONAL	TRTN
TRIUMPH BANCORP	TBK
TRIUMPH GROUP	TGI
TRONOX HOLDINGS PLC	TROX
TRUEBLUE	TBI
TRUECAR	TRUE
TRUIST FINANCIAL CORPORATION	TFC
TRUPANION	TRUP
TRUSTCO BANK	TRST
TRUSTMARK CORP	TRMK
TTEC HOLDINGS	TTEC
TTM TECHNOLOGIES	TTMI
TUCOWS	TCX
TUPPERWARE BRANDS CORP.	TUP
TURNING POINT BRANDS	TPB
TURNING POINT THERAPEUTICS	TPTX
TURTLE BEACH CORP.	HEAR
TUSIMPLE HOLDINGS	TSP
UNIVEST FINANCIAL CORPORATION	UVSP
UNUM GROUP	UNM
UPLAND SOFTWARE	UPLD
UPSTART HOLDINGS	UPST
UPWORK	UPWK
URANIUM ENERGY CORP	UEC
URBAN EDGE PROPERTIES	UE
URBAN OUTFITTERS	URBN
UR-ENERGY INC.	URG
UROGEN PHARMA	URGN
URSTADT BIDDLE PPTYS	UBA
US BANCORP	USB
US CONCRETE	USCR
US ECOLOGY	ECOL
US FOODS HOLDING	USFD
US PHYSICAL THERAPY INC	USPH
US SILICA HOLDINGS	SLCA
USANA HEALTH SCIENCES	USNA
UTAH MEDICAL PRODUCTS INC	UTMD
UTD BANKSHARES	UBSI
UTZ BRANDS INC (A)	UTZ

# Membership list

## Russell 3000® Index

Company	Ticker
UMPQUA HLDGS CP	UMPQ
UNDER ARMOUR CLASS A	UAA
UNDER ARMOUR CLASS C	UA
UNIFI INC	UFI
UNIFIRST CORP	UNF
UNION PACIFIC CORP	UNP
UNISYS CORP	UIS
UNITED AIRLINES HOLDINGS INC	UAL
UNITED COMMUNITY BANKS INC	UCBI
UNITED FIRE GROUP	UFCS
UNITED INSURANCE HOLDINGS CORP.	UIHC
UNITED NATURAL FOODS	UNFI
UNITED PARCEL SERVICE	UPS
UNITED RENTALS	URI
UNITED STATES STEEL CORP	X
UNITED THERAPEUTICS	UTHR
UNITEDHEALTH GROUP	UNH
UNITI GROUP	UNIT
UNITIL CORP	UTL
UNITY SOFTWARE	U
UNIVAR SOLUTIONS INC	UNVR
UNIVERSAL CORP	UVV
UNIVERSAL DISPLAY CORP.	OLED
UNIVERSAL ELECTRONICS	UEIC
UNIVERSAL HEALTH RLTY INCOME	UHT
UNIVERSAL HEALTH SERVICES B	UHS
UNIVERSAL HLDGS	UVE
UNIVERSAL LOGISTICS HOLDINGS INC.	ULH
VERISIGN INC	VRSN
VERISK ANALYTICS	VRSK
VERITEX HOLDINGS INC	VBTX
VERITIV CORP.	VRTV
VERITONE INC	VERI
VERIZON COMMUNICATIONS	VZ
VERRA MOBILITY CORPORATION (A)	VRRM
VERRICA PHARMACEUTICALS	VRCA
VERSO CORPORATIN	VRS
VERTEX PHARM	VRTX
VERTIV HOLDINGS CO (A)	VRT
VERU	VERU
VF CORP	VFC
VIACOMCBS (A)	VIACA
VIACOMCBS (B)	VIAC
VIAD CORP	VVI
VIAANT TECHNOLOGY	DSP
VIASAT	VSAT
VIATRIS	VTRS
VIAVI SOLUTIONS	VIAV

Company	Ticker
UWM HOLDINGS CORPORATION (A)	UWMC
VAIL RESORTS	MTN
VALERO ENERGY	VLO
VALHI INC	VHI
VALLEY NATIONAL BANCORP	VLV
VALMONT INDS	VMI
VALUE LINE INC	VALU
VALVOLINE	VVV
VANDA PHARMACEUTICALS	VNDA
VAPOTHERM	VAPO
VAREX IMAGING	VREX
VARONIS SYSTEMS	VRNS
VAXART	VXRT
VAXCYTE	PCVX
VBI VACCINES	VBIV
VECTOR GP LTD	VGR
VECTRUS	VEC
VEECO INSTR INC	VECO
VEEVA SYSTEMS	VEEV
VELOCITY FINANCIAL INC	VEL
VELOCITY LIDAR INC	VLDR
VENTAS INC	VTR
VERA BRADLEY	VRA
VERACYTE INC	VCYT
VERASTEM INC	VSTM
VEREIT	VER
VERICEL	VCEL
VERINT SYSTEMS	VRNT
VOR BIOPHARMA	VOR
VORNADO REALTY	VNO
VOXX INTERNATIONAL CORP.	VOXX
VOYA FINANCIAL	VOYA
VROOM	VRM
VSE CORP	VSEC
VULCAN MATERIALS	VMC
VUZIX CORP	VUZI
W&T OFFSHORE	WTI
W. P. CAREY INC.	WPC
WABASH NATIONAL	WNC
WABTEC	WAB
WALGREENS BOOTS ALLIANCE	WBA
WALKER & DUNLOP	WD
WALMART	WMT
WARRIOR MET COAL	HCC
WASHINGTON FEDERAL	WAFD
WASHINGTON REAL ESTATE INV	WRE
WASHINGTON TRUST BANCORP	WASH
WASTE MGMT INC	WM

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Company	Ticker
VICI PROPERTIES	VICI
VICOR CORP	VICR
VIEMED HEALTHCARE	VMD
VIEW INC (A)	VIEW
VIEWRAY INC	VRAY
VIKING THERAPEUTICS	VKTX
VILLAGE SUPER MARKET	VLGEA
VIMEO	VMEQ
VINCERX INC	VINC
VINE ENERGY	VEI
VIR BIOTECHNOLOGY	VIR
VIRACTA THERAPEUTICS INC	VIRX
VIRGIN GALACTIC HOLDINGS (A)	SPCE
VIRNETX HOLDING	VHC
VIRTU FINANCIAL	VIRT
VIRTUS INVESTMENT PARTNERS INC.	VRTS
VISA	V
VISHAY INTERTECH	VSH
VISHAY PRECISION GROUP	VPQ
VISTA OUTDOOR	VSTO
VISTAGEN THERAPEUTICS	VTGN
VISTEON CORP.	VC
VISTRA CORP	VST
VITAL FARMS	VITL
VIVINT SMART HOME INC (A)	VVNT
VMWARE INC.	VMW
VOCERA COMMUNICATIONS INC	VCRA
VONAGE HOLDINGS	VG
VONTIER	VNT
WEYERHAEUSER	WY
WHIRLPOOL CORP	WHR
WHITE MOUNTAINS INSURANCE	WTM
WHITESTONE REIT	WSR
WHITING PETROLEUM	WLL
WHOLE EARTH BRANDS INC (A)	FREE
WIDEPENWEST	WOW
WILEY (JOHN) & SONS - CL A	JW.A
WILLDAN GROUP	WLDN
WILLIAMS COS	WMB
WILLIAMS SONOMA	WSM
WILLIS LEASE	WLFC
WILLIS TOWERS WATSON PLC	WLTW
WILLSCOT MOBILE MINI HOLDINGS CORP	WSC
WINGSTOP	WING
WINMARK CORP	WINA
WINNEBAGO INDS	WGO
WINTRUST FINANCIAL CORP	WTFC
WISDOMTREE INVESTMENTS	WETF

Company	Ticker
WATERS CORP	WAT
WATERSTONE FINANCIAL	WSBF
WATFORD HOLDINGS	WTRE
WATSCO INC	WSO
WATTS WATER TECHNOLOGIES	WTS
WAVE LIFE SCIENCES	WVE
WAYFAIR	W
WD-40 CO	WDFC
WEBSTER FINANCIAL	WBS
WEC ENERGY GROUP	WEC
WEINGARTEN REALTY INVESTORS	WRI
WEIS MARKETS	WMK
WELBILT	WBT
WELLS FARGO & COMPANY	WFC
WELLTOWER INC.	WELL
WENDYS COMPANY	WEN
WEREWOLF THERAPEUTICS	HOWL
WERNER ENTERPRISES	WERN
WESBANCO	WSBC
WESCO INTERNATIONAL	WCC
WEST BANCORPORATION	WTBA
WEST PHARM SVCS	WST
WESTAMERICA BANCP	WABC
WESTERN ALLIANCE BANCORP	WAL
WESTERN DIGITAL	WDC
WESTERN UNION	WU
WESTLAKE CHEMICAL	WLK
WESTROCK COMPANY	WRK
WEX	WEX
YEXT	YEXT
YORK WATER CO	YORW
YUM BRANDS	YUM
YUM CHINA HOLDINGS	YUMC
ZEBRA TECHNOLOGIES	ZBRA
ZENDESK	ZEN
ZENTALIS PHARMACEUTICALS	ZNTL
ZILLOW GROUP	ZG
ZILLOW GROUP CL C	Z
ZIMMER BIOMET HOLDINGS	ZBH
ZIONS BANCORPORATION N.A.	ZION
ZIOPHARM ONCOLOGY	ZIOP
ZIX	ZIXI
ZOETIS	ZTS
ZOGENIX	ZGNX
ZOOM VIDEO COMMUNICATIONS	ZM
ZSCALER	ZS
ZUMIEZ	ZUMZ
ZUORA	ZUO

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Company	Ticker
WIX.COM	WIX
WOLVERINE WORLD WIDE	WWW
WOODWARD	WWD
WORKDAY	WDAY
WORKHORSE GROUP	WKHS
WORKIVA	WK
WORLD ACCEPTANCE	WRLD
WORLD FUEL SERVICES	INT
WORTHINGTON INDS	WOR
WSFS FINANCIAL CORP	WSFS
WW INTERNATIONAL INC	WW
WWF ENTMNT	WWE
WYNDHAM HOTELS & RESORTS	WH
WYNN RESORTS	WYNN
XBIOTECH	XBIT
XCEL ENERGY	XEL
XENCOR	XNCR
XENIA HOTELS & RESORTS	XHR
XEROX HOLDINGS	XRX
XILINX	XLNX
XL FLEET CORP (A)	XL
XOMA	XOMA
XPEL INC	XPEL
XPERI HOLDING CORPORATION	XPER
XPO LOGISTICS	XPO
XYLEM INC.	XYL
YELLOW CORPORATION	YELL
YELP	YELP
YETI HOLDINGS	YETI
Y-MABS THERAPEUTICS	YMAB

Company	Ticker
ZYMERGEN	ZY
ZYNEX	ZYXI
ZYNGA	ZNGA



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