



**Marginable Stock List for US Stocks 美國股票借貸比率**  
**Effective from 13 July 2020**

• Freeman Securities Ltd. reserves the right to revise the Margin of Finance of the following counters from time to time without giving prior notice. 民眾證券有限公司保留對下列股票按揭成數修改之權利而毋須作出事先通知

Stock Code 股票編號	Marginable Stock 可按押美股	Margin of Finance 按揭成數
A	AGILENT TECH INC	50%
AA	ALCOA CORP	50%
AAN	AARON'S INC	50%
AAON	AAON INC	50%
AAP	ADVANCE AUTO PAR	50%
AAPL	APPLE INC	50%
AAT	AMERICAN ASSETS TRUST INC	40%
AAWW	ATLAS AIR WORLDWIDE HOLDINGS	40%
AAXN	AXON ENTERPRISE INC	50%
ABB	ABB LTD	50%
ABBV	ABBVIE INC	50%
ABC	AMERISOURCEBERGE	50%
ABCB	AMERIS BANCORP	40%
ABG	ASBURY AUTO GRP	40%
ABM	ABM INDUSTRIES	50%
ABMD	ABIOMED INC	50%
ABT	ABBOTT LABS	50%
ABTX	ALLEGIANCE BANCSHARES INC	30%
ACAD	ACADIA PHARMACEU	50%
ACBI	ATLANTIC CAPITAL BANCSHARES	30%
ACC	AMERICAN CAMPUS COMMUNITIES	50%
ACCO	ACCO BRANDS CORP	30%
ACGL	ARCH CAPITAL GROUP LTD	50%
ACHC	ACADIA HEALTHCAR	50%
ACIA	ACACIA COMMUNICATIONS INC	50%
ACIW	ACI WORLDWIDE INC	50%
ACLS	AXCELIS TECHNOLOGIES INC	30%
ACM	AECOM	50%
ACN	ACCENTURE PLC-CL A	50%
ACRE	ARES COMMERCIAL REAL ESTATE	30%
ACWI	ISHARES MSCI ACWI ETF	50%
ACWV	ISHARES EDGE MSCI MIN VOL GLOBAL ETF	50%
ADBE	ADOBE INC	50%
ADC	AGREE REALTY CORP	50%
ADI	ANALOG DEVICES INC	50%
ADM	ARCHER-DANIELS	50%
ADNT	ADIENT PLC	40%
ADP	AUTOMATIC DATA PROCESSING	50%
ADS	ALLIANCE DATA SYSTEMS CORP	50%
ADSK	AUTODESK INC	50%
ADSW	ADVANCED DISPOSAL SERVICES I	50%
ADTN	ADTRAN INC	30%
ADUS	ADDUS HOMECARE	40%
ADVM	ADVERUM BIOTECHN	40%
AEE	AMEREN CORPORATION	50%

AEGN	AEGION CORP	30%
AEIS	ADVANCED ENERGY INDUSTRIES	50%
AEL	AMERICAN EQUITY INVT LIFE HL	50%
AEM	AGNICO EAGLE MINES LTD	50%
AEO	AMER EAGLE OUTF	40%
AEP	AMERICAN ELECTRIC POWER	50%
AER	AERCAP HOLDINGS NV	50%
AES	AES CORP	50%
AFG	AMERICAN FINANCIAL GROUP INC	50%
AFL	AFLAC INC	50%
AGCO	AGCO CORP	50%
AGG	ISHARES CORE U.S. AGGREGATE BOND ETF	50%
AGI	ALAMOS GOLD INC	50%
AGIO	AGIOS PHARMACEUT	50%
AGLE	AEGLEA BIOTHERAP	30%
AGM	FEDERAL AGRIC MTG CORP-CL C	30%
AGNC	AGNC INVESTMENT CORP	50%
AGO	ASSURED GUARANTY LTD	50%
AGR	AVANGRID INC	50%
AGX	ARGAN INC	30%
AGYS	AGILYSYS INC	30%
AHH	ARMADA HOFFLER PROPERTIES IN	30%
AIG	AMERICAN INTERNATIONAL GROUP	50%
AIMC	ALTRA INDUSTRIAL MOTION CORP	50%
AIN	ALBANY INTL CORP-CL A	40%
AIR	AAR CORP	30%
AIT	APPLIED INDUSTRIAL TECH INC	50%
AIV	APARTMENT INVT & MGMT CO -A	50%
AIZ	ASSURANT INC	50%
AJG	ARTHUR J GALLAGHER & CO	50%
AJRD	AEROJET ROCKETDYNE HOLDINGS	50%
AJX	GREAT AJAX CORP	30%
AKAM	AKAMAI TECHNOLOGIES INC	50%
AKBA	AKEBIA THERAPEUT	40%
AKR	ACADIA REALTY TRUST	40%
AL	AIR LEASE CORP	50%
ALB	ALBEMARLE CORP	50%
ALBO	ALBIREO PHARMA I	30%
ALCO	ALICO INC	30%
ALE	ALLETE INC	50%
ALEX	ALEXANDER & BALDWIN INC	30%
ALG	ALAMO GROUP INC	40%
ALGN	ALIGN TECHNOLOGY	50%
ALGT	ALLEGIANT TRAVEL	40%
ALK	ALASKA AIR GROUP	50%
ALKS	ALKERMES PLC	50%
ALL	ALLSTATE CORP	50%
ALLE	ALLEGION PLC	50%
ALLY	ALLY FINANCIAL INC	50%
ALNY	ALNYLAM PHARMACE	50%
ALRM	ALARM.COM HOLDINGS INC	50%
ALSN	ALLISON TRANSMISSION HOLDING	50%
ALV	AUTOLIV INC	50%
ALXN	ALEXION PHARM	50%
AMAG	AMAG PHARMACEUTI	30%
AMAT	APPLIED MATERIALS INC	50%
AMBA	AMBARELLA INC	40%
AMBC	AMBAC FINANCIAL GROUP INC	30%

AMCX	AMC NETWORKS-A	40%
AMD	ADVANCED MICRO DEVICES	50%
AME	AMETEK INC	50%
AMED	AMEDISYS INC	50%
AMG	AFFILIATED MANAGERS GROUP	50%
AMGN	AMGEN INC	50%
AMH	AMERICAN HOMES 4 RENT- A	50%
AMKR	AMKOR TECHNOLOGY INC	50%
AMN	AMN HEALTHCARE	50%
AMNB	AMER NATL BNKSHS/DANVILLE VA	30%
AMOT	ALLIED MOTION TECHNOLOGIES	30%
AMP	AMERIPRISE FINANCIAL INC	50%
AMPH	AMPHASTAR PHARMA	30%
AMRB	AMERICAN RIVER BANKSHRS (CA)	30%
AMRC	AMERESCO INC-A	40%
AMRN	AMARIN CORP -ADR	50%
AMSF	AMERISAFE INC	40%
AMSWA	AMERICAN SOFTWARE INC-CL A	30%
AMT	AMERICAN TOWER CORP	50%
AMTD	TD AMERITRADE HOLDING CORP	50%
AMWD	AMER WOODMARK CO	40%
AMX	AMERICA MOVIL SAB DE CV	50%
AMZN	AMAZON.COM INC	50%
AN	AUTONATION INC	50%
ANAB	ANAPTYSBIO INC	30%
ANAT	AMERICAN NATIONAL INSURANCE	50%
ANDE	ANDERSONS INC	30%
ANET	ARISTA NETWORKS INC	50%
ANF	ABERCROMBIE & FI	50%
ANGO	ANGIODYNAMICS IN	30%
ANIK	ANIKA THERAPEUTI	30%
ANIP	ANI PHARMACEUTIC	30%
ANSS	ANSYS INC	50%
ANTM	ANTHEM INC	50%
AON	AON PLC-CLASS A	50%
AOS	SMITH (A.O.) CORP	50%
AOSL	ALPHA & OMEGA SEMICONDUCTOR	30%
APA	APACHE CORP	50%
APAM	ARTISAN PARTNERS ASSET MA -A	50%
APD	AIR PRODS & CHEM	50%
APEI	AMERICAN PUBLIC	30%
APH	AMPHENOL CORP-CL A	50%
APLE	APPLE HOSPITALITY REIT INC	50%
APLS	APELLIS PHARMACE	50%
APO	APOLLO GLOBAL MANAGEMENT INC	50%
APOG	APOGEE ENTERPR	30%
APPF	APPFOLIO INC - A	50%
APPS	DIGITAL TURBINE INC	30%
APTS	PREFERRED APARTMENT COMMUN-A	30%
APTV	APTIV PLC	50%
AQN	ALGONQUIN POWER & UTILITIES CORP	50%
AQUA	EVOQUA WATER TECHNOLOGIES CO	50%
ARA	AMERICAN RENAL A	30%
ARCB	ARCBEST CORP	30%
ARCC	ARES CAPITAL CORP	50%
ARCH	ARCH RESOURCES I	30%
ARDX	ARDELYX INC	30%
ARE	ALEXANDRIA REAL ESTATE EQUIT	50%

ARES	ARES MANAGEMENT CORP - A	50%
ARGX	ARGENX SE	50%
ARI	APOLLO COMMERCIAL REAL ESTAT	40%
ARMK	ARAMARK	50%
ARNA	ARENA PHARMACEUT	50%
ARNC	ARCONIC CORP	40%
AROC	ARCHROCK INC	30%
AROW	ARROW FINANCIAL CORP	30%
ARR	ARMOUR RESIDENTIAL REIT INC	30%
ARTNA	ARTESIAN RESOURCES CORP-CL A	30%
ARW	ARROW ELECTRONICS INC	50%
ARWR	ARROWHEAD PHARMA	50%
ASB	ASSOCIATED BANC-CORP	50%
ASGN	ASGN INC	50%
ASH	ASHLAND GLOBAL H	50%
ASIX	ADVANSIX INC	30%
ASMB	ASSEMBLY BIOSCIE	30%
ASML	ASML HOLDING NV	50%
ASTE	ASTEC INDUSTRIES INC	40%
ASYS	AMTECH SYSTEMS INC	30%
ATEC	ALPHATEC HOLDING	30%
ATEN	A10 NETWORKS INC	30%
ATGE	ADTALEM GLOBAL E	40%
ATH	ATHENE HOLDING LTD-CLASS A	50%
ATHM	AUTOHOME INC-ADR	50%
ATI	ALLEGHENY TECH	50%
ATKR	ATKORE INTERNATIONAL GROUP I	40%
ATNI	ATN INTERNATIONAL	30%
ATNX	ATHENEX INC	40%
ATO	ATMOS ENERGY CORP	50%
ATR	APTARGROUP INC	50%
ATRA	ATARA BIOTHERAPE	30%
ATRC	ATRICURE INC	40%
ATRO	ASTRONICS CORP	30%
ATSG	AIR TRANSPORT SERVICES GROUP	40%
ATUS	ALTICE USA INC-A	50%
ATVI	ACTIVISION BLIZZARD INC	50%
AU	ANGLOGOLD ASHANTI LTD	50%
AUY	YAMANA GOLD INC	50%
AVA	AVISTA CORP	50%
AVAV	AEROVIRONMENT INC	40%
AVB	AVALONBAY COMMUNITIES INC	50%
AVD	AMER VANGUARD	30%
AVGO	BROADCOM INC	50%
AVID	AVID TECHNOLOGY INC	30%
AVNW	AVIAT NETWORKS INC	30%
AVT	AVNET INC	50%
AVY	AVERY DENNISON	50%
AVYA	AVAYA HOLDINGS CORP	40%
AWI	ARMSTRONG WORLD	50%
AWK	AMERICAN WATER WORKS CO INC	50%
AWR	AMERICAN STATES WATER CO	50%
AXGN	AXOGEN INC	30%
AXL	AMER AXLE & MFG	30%
AXP	AMERICAN EXPRESS CO	50%
AXS	AXIS CAPITAL HOLDINGS LTD	50%
AXTA	AXALTA COATING S	50%
AY	ATLANTICA SUSTAI	50%

AYI	ACUITY BRANDS INC	50%
AYX	ALTERYX INC - CLASS A	50%
AZN	ASTRAZENECA PLC	50%
AZO	AUTOZONE INC	50%
AZPN	ASPEN TECHNOLOGY INC	50%
AZUL	AZUL SA	40%
AZZ	AZZ INC	30%
B	BARNES GROUP INC	40%
BA	BOEING CO/THE	50%
BABA	ALIBABA GRP-ADR	50%
BAC	BANK OF AMERICA CORP	50%
BAH	BOOZ ALLEN HAMILTON HOLDINGS	50%
BAM	BROOKFIELD ASSET MANAGEMENT INC	50%
BANC	BANC OF CALIFORNIA INC	30%
BAND	BANDWIDTH INC-CLASS A	50%
BANF	BANCFIRST CORP	40%
BANR	BANNER CORPORATION	40%
BAP	CREDICORP LTD	50%
BATRA	LIBERTY MEDIA- A	40%
BATRK	LIBERTY MEDIA CORP-LIBERTY BRAVES	40%
BAX	BAXTER INTL INC	50%
BB	BLACKBERRY LTD	50%
BBL	BHP GROUP PLC	50%
BBSI	BARRETT BUS SVCS	30%
BBY	BEST BUY CO INC	50%
BC	BRUNSWICK CORP	50%
BCBP	BCB BANCORP INC	30%
BCC	BOISE CASCADE CO	40%
BCEI	BONANZA CREEK EN	30%
BCO	BRINK'S CO/THE	50%
BCOR	BLUCORA INC	30%
BCOV	BRIGHTCOVE	30%
BCPC	BALCHEM CORP	50%
BCS	BARCLAYS PLC	50%
BDC	BELDEN INC	40%
BDGE	BRIDGE BANCORP INC	30%
BDN	BRANDYWINE REALTY TRUST	40%
BDX	BECTON DICKINSON	50%
BEAT	BIOTELEMETRY INC	40%
BECN	BEACON ROOFING S	40%
BELFB	BEL FUSE INC	50%
BEN	FRANKLIN RESOURCES INC	50%
BERY	BERRY GLOBAL GRO	50%
BFAM	BRIGHT HORIZONS	50%
BFIN	BANKFINANCIAL CORP	30%
BG	BUNGE LTD	50%
BGNE	BEIGENE LTD-ADR	50%
BHB	BAR HARBOR BANKSHARES	30%
BHE	BENCHMARK ELECTRONICS INC	30%
BHF	BRIGHTHOUSE FINANCIAL INC	50%
BHLB	BERKSHIRE HILLS BANCORP INC	30%
BHP	BHP GROUP LTD	50%
BHVN	BIOHAVEN PHARMAC	50%
BIDU	BAIDU INC-SP ADR	50%
BIG	BIG LOTS INC	50%
BIIB	BIOGEN INC	50%
BIL	SPDR BLOOMBERG BARCLAYS 1-3 MONTH T-BILL ETF	50%
BIO	BIO-RAD LABS-A	50%

BITA	BITAUTO HOLDINGS LTD-ADR	40%
BJRI	BJ'S RESTAURANTS	30%
BK	BANK OF NEW YORK MELLON CORP	50%
BKH	BLACK HILLS CORP	50%
BKI	BLACK KNIGHT INC	50%
BKNG	BOOKING HOLDINGS	50%
BKU	BANKUNITED INC	40%
BL	BLACKLINE INC	50%
BLBD	BLUE BIRD CORP	30%
BLD	TOPBUILD CORP	50%
BLDR	BUILDERS FIRSTSO	50%
BLK	BLACKROCK INC	50%
BLKB	BLACKBAUD INC	50%
BLL	BALL CORP	50%
BLMN	BLOOMIN' BRANDS	30%
BLUE	BLUEBIRD BIO INC	50%
BLX	BANCO LATINOAMERICANO COME-E	30%
BMCH	BMC STOCK HOLDIN	40%
BMI	BADGER METER INC	40%
BMRC	BANK OF MARIN BANCORP/CA	30%
BMRN	BIOMARIN PHARMAC	50%
BMTC	BRYN MAWR BANK CORP	30%
BMY	BRISTOL-MYER SQB	50%
BND	VANGUARD TOTAL BOND MARKET ETF	50%
BNFT	BENEFITFOCUS INC	30%
BOCH	BANK OF COMMERCE HOLDINGS	30%
BOH	BANK OF HAWAII CORP	50%
BOKF	BOK FINANCIAL CORPORATION	50%
BOOT	BOOT BARN HOLDIN	30%
BOX	BOX INC - CLASS A	50%
BP	BP PLC	50%
BPFH	BOSTON PRIVATE FINL HOLDING	30%
BPMC	BLUEPRINT MEDICI	50%
BPOP	POPULAR INC	50%
BR	BROADRIDGE FINANCIAL SOLUTIO	50%
BRC	BRADY CORP - A	50%
BRG	BLUEROCK RESIDENTIAL GROWTH	30%
BRKL	BROOKLINE BANCORP INC	30%
BRKR	BRUKER CORP	50%
BRKS	BROOKS AUTOMATION INC	50%
BRO	BROWN & BROWN INC	50%
BRP	BRP GROUP INC-A	40%
BRT	BRT APARTMENTS CORP	30%
BRX	BRIXMOR PROPERTY GROUP INC	50%
BSAC	BANCO SANTANDER CHILE	50%
BSCK	INVESCO BULLETSHARES 2020 CORPORATE BOND ETF	50%
BSET	BASSETT FURN	30%
BSIG	BRIGHTSPHERE INVESTMENT GROU	30%
BSRR	SIERRA BANCORP	30%
BSX	BOSTON SCIENTIFC	50%
BTG	B2GOLD CORP	50%
BTI	BRITISH AMERICAN TOBACCO PLC	50%
BUD	ANHEUSER-BUSCH INBEV SA/NV	50%
BURL	BURLINGTON STORE	50%
BUSE	FIRST BUSEY CORP	30%
BV	BRIGHTVIEW HOLDI	40%
BVN	CIA DE MINAS BUENAVENTURA SAA	50%
BWA	BORGWARNER INC	50%

BWB	BRIDGEWATER BANCSHARES INC	30%
BWXT	BWX TECHNOLOGIES INC	50%
BX	BLACKSTONE GROUP INC/THE-A	50%
BXMT	BLACKSTONE MORTGAGE TRU-CL A	50%
BXP	BOSTON PROPERTIES INC	50%
BXS	BANCORPSOUTH BANK	50%
BY	BYLINE BANCORP INC	30%
BYD	BOYD GAMING CORP	50%
BZH	BEAZER HOMES USA	30%
C	CITIGROUP INC	50%
CAC	CAMDEN NATIONAL CORP	30%
CACI	CACI INTERNATIONAL INC -CL A	50%
CADE	CADENCE BANCORP	40%
CAE	CAE INC	50%
CAG	CONAGRA BRANDS I	50%
CAH	CARDINAL HEALTH	50%
CAI	CAI INTERNATIONAL INC	30%
CAL	CALERES INC	30%
CALA	CALITHERA BIOSCI	30%
CALM	CAL-MAINE FOODS	50%
CALX	CALIX INC	30%
CAMP	CALAMP CORP	30%
CARG	CARGURUS INC	50%
CARS	CARS.COM INC	30%
CASH	META FINANCIAL GROUP INC	30%
CASS	CASS INFORMATION SYSTEMS INC	30%
CASY	CASEY'S GENERAL	50%
CAT	CATERPILLAR INC	50%
CATM	CARDTRONICS PLC - A	40%
CATO	CATO CORP-A	30%
CATY	CATHAY GENERAL BANCORP	50%
CB	CHUBB LTD	50%
CBB	CINCINNATI BELL	30%
CBD	CIA BRASILEIRA DE DISTRIBUICAO	50%
CBOE	CBOE GLOBAL MARKETS INC	50%
CBRE	CBRE GROUP INC - A	50%
CBRL	CRACKER BARREL	50%
CBSH	COMMERCE BANCSHARES INC	50%
CBT	CABOT CORP	50%
CBTX	CBTX INC	30%
CBU	COMMUNITY BANK SYSTEM INC	50%
CBZ	CBIZ INC	40%
CC	CHEMOURS CO	50%
CCBG	CAPITAL CITY BANK GROUP INC	30%
CCC	CLARIVATE PLC	50%
CCF	CHASE CORP	30%
CCI	CROWN CASTLE INTL CORP	50%
CCJ	CAMECO CORP	50%
CCK	CROWN HOLDINGS I	50%
CCMP	CABOT MICROELECTRONICS CORP	50%
CCNE	CNB FINANCIAL CORP/PA	30%
CCOI	COGENT COMMUNICA	50%
CCRN	CROSS COUNTRY HE	30%
CCS	CENTURY COMMUNIT	30%
CCXI	CHEMOCENTRYX INC	50%
CDK	CDK GLOBAL INC	50%
CDLX	CARDLYTICS INC	50%
CDMO	AVID BIOSERVICES	30%

CDNA	CAREDX INC	40%
CDNS	CADENCE DESIGN SYS INC	50%
CDW	CDW CORP/DE	50%
CDXS	CODEXIS INC	30%
CE	CELANESE CORP	50%
CECE	CECO ENVIRONMENTAL CORP	30%
CEIX	CONSOL ENERGY IN	30%
CENT	CENTRAL GARDEN	40%
CENTA	CENTRAL GARDEN & PET CO	40%
CENX	CENTURY ALUMINUM	30%
CERN	CERNER CORP	50%
CERS	CERUS CORP	40%
CEVA	CEVA INC	30%
CF	CF INDUSTRIES HO	50%
CFFN	CAPITOL FEDERAL FINANCIAL IN	40%
CFG	CITIZENS FINANCIAL GROUP	50%
CFR	CULLEN/FROST BANKERS INC	50%
CFX	COLFAX CORP	50%
CG	CARLYLE GROUP INC/THE	50%
CGBD	TCG BDC INC	30%
CGNX	COGNEX CORP	50%
CHCO	CITY HOLDING CO	40%
CHCT	COMMUNITY HEALTHCARE TRUST I	30%
CHD	CHURCH & DWIGHT	50%
CHDN	CHURCHILL DOWNS	50%
CHE	CHEMED CORP	50%
CHEF	CHEFS WAREHOUSE	30%
CHGG	CHEGG INC	50%
CHH	CHOICE HOTELS	50%
CHKP	CHECK POINT SOFTWARE TECH	50%
CHL	CHINA MOBILE LTD	50%
CHMA	CHIASMA INC	30%
CHRS	COHERUS BIOSCIEN	40%
CHRW	C.H. ROBINSON WORLDWIDE INC	50%
CHT	CHUNGHWA TELECOM CO LTD	50%
CHTR	CHARTER COMMUN-A	50%
CHUY	CHUY'S HOLDINGS	30%
CI	CIGNA CORP	50%
CIA	CITIZENS INC	30%
CIEN	CIENA CORP	50%
CIM	CHIMERA INVESTMENT CORP	40%
CINF	CINCINNATI FINANCIAL CORP	50%
CIO	CITY OFFICE REIT INC	30%
CIR	CIRCOR INTERNATIONAL INC	30%
CKH	SEACOR HOLDINGS INC	30%
CL	COLGATE-PALMOLIV	50%
CLAR	CLARUS CORP	30%
CLB	CORE LABS NV	30%
CLCT	COLLECTORS UNIV	30%
CLDR	CLOUDERA INC	50%
CLDT	CHATHAM LODGING TRUST	30%
CLFD	CLEARFIELD INC	30%
CLGX	CORELOGIC INC	50%
CLH	CLEAN HARBORS INC	50%
CLI	MACK-CALI REALTY CORP	40%
CLLS	CELLECTIS SA	50%
CLNC	COLONY CREDIT REAL ESTATE IN	30%
CLPR	CLIPPER REALTY INC	30%



CLW	CLEARWATER	30%
CLX	CLOROX CO	50%
CMA	COMERICA INC	50%
CMC	COMMERCIAL METAL	50%
CMCO	COLUMBUS MCKINNON CORP/NY	30%
CMCSA	COMCAST CORP-A	50%
CMD	CANTEL MEDICAL	40%
CME	CME GROUP INC	50%
CMG	CHIPOTLE MEXICAN	50%
CMI	CUMMINS INC	50%
CMO	CAPSTEAD MORTGAGE CORP	30%
CMP	COMPASS MINERALS	40%
CMRE	COSTAMARE INC	30%
CMS	CMS ENERGY CORP	50%
CMTL	COMTECH TELECOMMUNICATIONS	30%
CNA	CNA FINANCIAL CORP	50%
CNC	CENTENE CORP	50%
CNCE	CONCERT PHARMACE	30%
CNHI	CNH INDUSTRIAL NV	50%
CNI	CANADIAN NATIONAL RAILWAY CO	50%
CNK	CINEMARK HOLDING	40%
CNMD	CONMED CORP	40%
CNNE	CANNAE HOLDINGS	50%
CNO	CNO FINANCIAL GROUP INC	50%
CNOB	CONNECTONE BANCORP INC	30%
CNP	CENTERPOINT ENERGY INC	50%
CNQ	CANADIAN NATURAL RESOURCES LTD	50%
CNR	CORNERSTONE BUIL	30%
CNS	COHEN & STEERS INC	50%
CNSL	CONSOLIDATED COM	30%
CNX	CNX RESOURCES CO	50%
CNXN	PC CONNECTION	40%
CODI	COMPASS DIVERSIFIED HOLDINGS	40%
COF	CAPITAL ONE FINANCIAL CORP	50%
COG	CABOT OIL & GAS	50%
COHR	COHERENT INC	50%
COHU	COHU INC	30%
COKE	COCA-COLA CONSOL	50%
COLB	COLUMBIA BANKING SYSTEM INC	40%
COLD	AMERICOLD REALTY TRUST	50%
COLL	COLLEGIUM PHARMA	30%
COLM	COLUMBIA SPORTSW	50%
COMM	COMMSCOPE HOLDING CO INC	40%
CONE	CYRUSONE INC	50%
COO	COOPER COS INC	50%
COP	CONOCOPHILLIPS	50%
COR	CORESITE REALTY CORP	50%
CORE	CORE-MARK HOLDIN	40%
CORT	CORCEPT THERA	40%
COST	COSTCO WHOLESALE	50%
COUP	COUPA SOFTWARE INC	50%
COWN	COWEN INC - A	30%
CP	CANADIAN PACIFIC RAILWAY LTD	50%
CPA	COPA HOLDIN-CL A	50%
CPB	CAMPBELL SOUP CO	50%
CPF	CENTRAL PACIFIC FINANCIAL CO	30%
CPK	CHESAPEAKE UTILITIES CORP	40%
CPRT	COPART INC	50%

CPS	COOPER-STANDARD	30%
CPSI	COMPUTER PROGRAMS & SYSTEMS	30%
CPT	CAMDEN PROPERTY TRUST	50%
CR	CRANE CO	50%
CRAI	CRA INTERNATIONAL	30%
CRBP	CORBUS PHARMACEU	30%
CREE	CREE INC	50%
CRH	CRH PLC	50%
CRI	CARTER'S INC	50%
CRL	CHARLES RIVER LA	50%
CRM	SALESFORCE.COM INC	50%
CRMT	AMERICA'S CAR-MA	30%
CROX	CROCS INC	50%
CRS	CARPENTER TECH	40%
CRSP	CRISPR THERAPEUT	50%
CRUS	CIRRUS LOGIC INC	50%
CRVL	CORVEL CORP	40%
CRY	CRYOLIFE INC	30%
CS	CREDIT SUISSE GROUP AG	50%
CSCO	CISCO SYSTEMS INC	50%
CSGP	COSTAR GROUP INC	50%
CSGS	CSG SYSTEMS INTL INC	40%
CSII	CARDIOVASCULAR S	40%
CSIQ	CANADIAN SOLAR I	40%
CSL	CARLISLE COS INC	50%
CSOD	CORNERSTONE ONDEMAND INC	50%
CSTE	CAESARSTONE LTD	30%
CSTM	CONSTELLIUM SE	40%
CSTR	CAPSTAR FINANCIAL HOLDINGS I	30%
CSV	CARRIAGE SERVICE	30%
CSWI	CSW INDUSTRIALS INC	30%
CSX	CSX CORP	50%
CTAS	CINTAS CORP	50%
CTB	COOPER TIRE & RU	40%
CTBI	COMMUNITY TRUST BANCORP INC	30%
CTL	CENTURYLINK INC	50%
CTLT	CATALENT INC	50%
CTMX	CYTOMX THERAPEUT	30%
CTRE	CARETRUST REIT INC	40%
CTRN	CITI TRENDS INC	30%
CTS	CTS CORP	30%
CTSH	COGNIZANT TECH SOLUTIONS-A	50%
CTT	CATCHMARK TIMBER TRUST INC-A	30%
CTXS	CITRIX SYSTEMS INC	50%
CUB	CUBIC CORP	40%
CUBE	CUBESMART	50%
CUBI	CUSTOMERS BANCORP INC	30%
CUE	CUE BIOPHARMA IN	30%
CURO	CURO GROUP HOLDINGS CORP	30%
CUTR	CUTERA INC	30%
CUZ	COUSINS PROPERTIES INC	50%
CVA	COVANTA HOLDING CORP	40%
CVBF	CVB FINANCIAL CORP	50%
CVCO	CAVCO INDUSTRIES	40%
CVCY	CENTRAL VALLEY COMM BANCORP	30%
CVGW	CALAVO GROWERS I	40%
CVI	CVR ENERGY INC	50%
CVLT	COMMVault SYSTEMS INC	40%

CVLY	CODORUS VALLEY BANCORP INC	30%
CVNA	CARVANA CO	50%
CVS	CVS HEALTH CORP	50%
CVX	CHEVRON CORP	50%
CW	CURTISS-WRIGHT CORP	50%
CWCO	CONSOLIDATED WATER CO-ORD SH	30%
CWST	CASELLA WASTE SYSTEMS INC-A	50%
CWT	CALIFORNIA WATER SERVICE GRP	50%
CXO	CONCHO RESOURCES	50%
CXP	COLUMBIA PROPERTY TRUST INC	40%
CXW	CORECIVIC INC	40%
CYBR	CYBERARK SOFTWARE LTD/ISRAEL	50%
CYD	CHINA YUCHAI INTL LTD	30%
CYTK	CYTOKINETICS INC	40%
CZNC	CITIZENS & NORTHERN CORP	30%
CZR	CAESARS ENTERTAI	50%
CZWI	CITIZENS COMMUNITY BANCORP I	30%
CZZ	COSAN LTD - A	50%
D	DOMINION ENERGY INC	50%
DAL	DELTA AIR LI	50%
DAN	DANA INC	40%
DAR	DARLING INGREDIE	50%
DB	DEUTSCHE BANK AG	50%
DBD	DIEBOLD NIXDORF INC	30%
DBX	DROPBOX INC-CLASS A	50%
DCI	DONALDSON CO INC	50%
DCO	DUCOMMUN INC	30%
DCOM	DIME COMMUNITY BANCSHARES	30%
DCPH	DECIPHERA PHARMA	50%
DD	DUPONT DE NEMOUR	50%
DE	DEERE & CO	50%
DEA	EASTERLY GOVERNMENT PROPERTI	40%
DECK	DECKERS OUTDOOR	50%
DEI	DOUGLAS EMMETT INC	50%
DENN	DENNY'S CORP	30%
DEO	DIAGEO PLC	50%
DFIN	DONNELLEY FINANCIAL SOLUTION	30%
DFS	DISCOVER FINANCIAL SERVICES	50%
DG	DOLLAR GENERAL C	50%
DGICA	DONEGAL GROUP INC-CL A	30%
DGII	DIGI INTERNATIONAL INC	30%
DGX	QUEST DIAGNOSTIC	50%
DHI	DR HORTON INC	50%
DHR	DANAHER CORP	50%
DHT	DHT HOLDINGS INC	30%
DIOD	DIODES INC	50%
DIS	WALT DISNEY CO	50%
DISCA	DISCOVERY INC -	50%
DISCK	DISCOVERY INC	50%
DISH	DISH NETWORK-A	50%
DK	DELEK US HOLDING	40%
DKS	DICK'S SPORTING	50%
DLB	DOLBY LABORATORIES INC-CL A	50%
DLHC	DLH HOLDINGS COR	30%
DLPH	DELPHI TECHNOLOG	40%
DLR	DIGITAL REALTY TRUST INC	50%
DLTR	DOLLAR TREE INC	50%
DLX	DELUXE CORP	30%

DNKN	DUNKIN' BRANDS G	50%
DNLI	DENALI THERAPEUT	50%
DNOW	NOW INC	30%
DOC	PHYSICIANS REALTY TRUST	50%
DOOR	MASONITE INTERNA	40%
DORM	DORMAN PRODUCTS	50%
DOV	DOVER CORP	50%
DOW	DOW INC	50%
DOX	AMDOCS LTD	50%
DPZ	DOMINO'S PIZZA	50%
DQ	DAQO NEW ENE-ADR	30%
DRE	DUKE REALTY CORP	50%
DRH	DIAMONDROCK HOSPITALITY CO	40%
DRI	DARDEN RESTAURAN	50%
DRNA	DICERNA PHARMACE	40%
DRQ	DRIL-QUIP INC	40%
DSGX	DESCARTES SYSTEMS GROUP INC	50%
DSPG	DSP GROUP INC	30%
DTE	DTE ENERGY COMPANY	50%
DUK	DUKE ENERGY CORP	50%
DVA	DAVITA INC	50%
DVN	DEVON ENERGY CO	50%
DXC	DXC TECHNOLOGY CO	50%
DXCM	DEXCOM	50%
DXPE	DXP ENTERPRISES INC	30%
DY	DYCOM INDUSTRIES INC	40%
E	ENI SPA	50%
EA	ELECTRONIC ARTS INC	50%
EAT	BRINKER INTL	40%
EBAY	EBAY INC	50%
EBF	ENNIS INC	30%
EBS	EMERGENT BIOSOLU	50%
EBSB	MERIDIAN BANCORP INC	30%
EC	ECOPETROL SA	50%
ECHO	ECHO GLOBAL LOGISTICS INC	30%
ECL	ECOLAB INC	50%
ECOL	US ECOLOGY INC	40%
ECOM	CHANNELADVISOR CORP	30%
ECPG	ENCORE CAPITAL GROUP INC	40%
ED	CONSOLIDATED EDISON INC	50%
EDIT	EDITAS MEDICINE	40%
EDU	NEW ORIENTAL-ADR	50%
EE	EL PASO ELECTRIC CO	50%
EEFT	EURONET WORLDWIDE INC	50%
EFA	ISHARES MSCI EAFE ETF	50%
EFC	ELLINGTON FINANCIAL INC	30%
EFSC	ENTERPRISE FINANCIAL SERVICE	30%
EFX	EQUIFAX INC	50%
EGAN	EGAIN CORP	30%
EGBN	EAGLE BANCORP INC	40%
EGHT	8X8 INC	40%
EGO	ELDORADO GOLD CORP	40%
EGOV	NIC INC	40%
EGP	EASTGROUP PROPERTIES INC	50%
EGRX	EAGLE PHARMACEUT	30%
EHC	ENCOMPASS HEALTH	50%
EHTH	EHEALTH INC	50%
EIG	EMPLOYERS HOLDINGS INC	30%

EIGR	EIGER BIOPHARMAC	30%
EIX	EDISON INTERNATIONAL	50%
EL	ESTEE LAUDER	50%
ELF	ELF BEAUTY INC	30%
ELS	EQUITY LIFESTYLE PROPERTIES	50%
ELY	CALLAWAY GOLF CO	40%
EMB	ISHARES JP MORGAN USD EMERGING MARKETS BOND ETF	50%
EME	EMCOR GROUP INC	50%
EML	EASTERN CO/THE	30%
EMLC	VANECK VECTORS J.P. MORGAN EM LOCAL CURRENCY BOND ETF	50%
EMN	EASTMAN CHEMICAL	50%
EMR	EMERSON ELECTRIC CO	50%
ENB	ENBRIDGE INC	50%
ENBL	ENABLE MIDSTREAM	50%
ENIA	ENEL AMERICAS SA	50%
ENPH	ENPHASE ENERGY	50%
ENR	ENERGIZER HOLDIN	50%
ENS	ENERSYS	50%
ENSG	ENSIGN GROUP INC	50%
ENTA	ENANTA PHARMACEU	30%
ENTG	ENTEGRIS INC	50%
ENV	ENVESTNET INC	50%
ENVA	ENOVA INTERNATIONAL INC	30%
EOG	EOG RESOURCES	50%
EPAM	EPAM SYSTEMS INC	50%
EPAY	BOTTOMLINE TECHNOLOGIES (DE)	50%
EPC	EDGEWELL PERSONA	40%
EPD	ENTERPRISE PRODU	50%
EPR	EPR PROPERTIES	50%
EPZM	EPIZYME INC	40%
EQBK	EQUITY BANCSHARES INC - CL A	30%
EQC	EQUITY COMMONWEALTH	50%
EQIX	EQUINIX INC	50%
EQR	EQUITY RESIDENTIAL	50%
EQT	EQT CORP	50%
ERIC	TELEFONAKTIEBOLAGET LM ERICSSON	50%
ERIE	ERIE INDEMNITY COMPANY-CL A	50%
ERJ	EMBRAER SA	40%
ES	EVERSOURCE ENERGY	50%
ESE	ESCO TECHNOLOGIES INC	50%
ESGR	ENSTAR GROUP LTD	50%
ESI	ELEMENT SOLUTION	50%
ESNT	ESSENT GROUP LTD	50%
ESRT	EMPIRE STATE REALTY TRUST-A	40%
ESS	ESSEX PROPERTY TRUST INC	50%
ESSA	ESSA BANCORP INC	30%
ESXB	COMMUNITY BANKERS TRUST CORP	30%
ETFC	E*TRADE FINANCIAL CORP	50%
ETH	ETHAN ALLEN	30%
ETN	EATON CORP PLC	50%
ETR	ENTERGY CORP	50%
ETSY	ETSY INC	50%
EURN	EURONAV NV	40%
EV	EATON VANCE CORP	50%
EVBG	EVERBRIDGE INC	50%
EVH	EVOLENT HEALTH INC - A	30%
EVR	EVERCORE INC - A	50%
EVRI	EVERI HOLDINGS I	30%

EVTC	EVERTEC INC	50%
EW	EDWARDS LIFE	50%
EWA	ISHARES MSCI AUSTRALIA ETF	50%
EWBC	EAST WEST BANCORP INC	50%
EWJ	ISHARES MSCI JAPAN ETF	50%
EWL	ISHARES MSCI SWITZERLAND ETF	50%
EWT	ISHARES MSCI TAIWAN ETF	50%
EWU	ISHARES MSCI UNITED KINGDOM ETF	50%
EWY	ISHARES MSCI SOUTH KOREA ETF	50%
EWZ	ISHARES MSCI BRAZIL ETF	50%
EXAS	EXACT SCIENCES	50%
EXC	EXELON CORP	50%
EXEL	EXELIXIS INC	50%
EXLS	EXLSERVICE HOLDINGS INC	50%
EXP	EAGLE MATERIALS	50%
EXPD	EXPEDITORS INTL WASH INC	50%
EXPE	EXPEDIA GROUP IN	50%
EXPO	EXPONENT INC	50%
EXR	EXTRA SPACE STORAGE INC	50%
EXTN	EXTERRAN CORP	30%
EYE	NATIONAL VISION	50%
EZA	ISHARES MSCI SOUTH AFRICA ETF	50%
EZPW	EZCORP INC-CL A	30%
F	FORD MOTOR CO	50%
FAF	FIRST AMERICAN FINANCIAL	50%
FANG	DIAMONDBACK ENER	50%
FARM	FARMER BROS CO	30%
FARO	FARO TECHNOLOGIES INC	30%
FAS	DIREXION DAILY FINANCIAL BULL 3X SHARES	50%
FAST	FASTENAL CO	50%
FATE	FATE THERAPEUTIC	50%
FBC	FLAGSTAR BANCORP INC	40%
FBHS	FORTUNE BRANDS H	50%
FBIZ	FIRST BUSINESS FINANCIAL SER	30%
FBK	FB FINANCIAL CORP	30%
FBM	FOUNDATION BUILD	30%
FBMS	FIRST BANCSHARES INC/MS	30%
FBNC	FIRST BANCORP/NC	30%
FBP	FIRST BANCORP PUERTO RICO	40%
FC	FRANKLIN COVEY	30%
FCAU	FIAT CHRYSLER AU	50%
FCBC	FIRST COMMUNITY BANKSHARES	30%
FCF	FIRST COMMONWEALTH FINL CORP	30%
FCFS	FIRSTCASH INC	50%
FCN	FTI CONSULTING	50%
FCNCA	FIRST CITIZENS BCSHS -CL A	50%
FCPT	FOUR CORNERS PROPERTY TRUST	40%
FCX	FREEMPORT-MCMORAN	50%
FDP	FRESH DEL MONTE	40%
FDS	FACTSET RESEARCH SYSTEMS INC	50%
FDUS	FIDUS INVESTMENT CORP	30%
FDX	FEDEX CORP	50%
FE	FIRSTENERGY CORP	50%
FEIM	FREQUENCY ELECTRONICS INC	30%
FELE	FRANKLIN ELECTRIC CO INC	50%
FEYE	FIREEYE INC	50%
FF	FUTUREFUEL CORP	30%
FFBC	FIRST FINANCIAL BANCORP	40%

FFG	FBL FINANCIAL GROUP INC-CL A	30%
FFIC	FLUSHING FINANCIAL CORP	30%
FFIN	FIRST FINL BANKSHARES INC	50%
FFIV	F5 NETWORKS INC	50%
FFWM	FIRST FOUNDATION INC	30%
FGEN	FIBROGEN INC	50%
FHB	FIRST HAWAIIAN INC	50%
FHN	FIRST HORIZON NATIONAL CORP	50%
FIBK	FIRST INTERSTATE BANCYS-A	50%
FICO	FAIR ISAAC CORP	50%
FIS	FIDELITY NATIONAL INFO SERV	50%
FISI	FINANCIAL INSTITUTIONS INC	30%
FISV	FISERV INC	50%
FITB	FIFTH THIRD BANCORP	50%
FIVE	FIVE BELOW	50%
FIVN	FIVE9 INC	50%
FIX	COMFORT SYSTEMS USA INC	40%
FIXX	HOMOLOGY MEDICIN	30%
FLEX	FLEX LTD	50%
FLIC	FIRST OF LONG ISLAND CORP	30%
FLIR	FLIR SYSTEMS INC	50%
FLO	FLOWERS FOODS	50%
FLOT	ISHARES FLOATING RATE BOND ETF	50%
FLOW	SPX FLOW INC	40%
FLR	FLUOR CORP	50%
FLRN	SPDR BLOOMBERG BARCLAYS INVESTMENT GRADE FLOATING RATE ETF	50%
FLS	FLOWSERVE CORP	50%
FLT	FLEETCOR TECHNOLOGIES INC	50%
FLWS	1-800-FLOWERS-A	40%
FLXN	FLEXION THERAPEU	30%
FMBH	FIRST MID BANCSHARES INC	30%
FMBI	FIRST MIDWEST BANCORP INC/IL	40%
FMC	FMC CORP	50%
FMNB	FARMERS NATL BANC CORP	30%
FMX	FOMENTO ECONOMICO MEXICANO SAB DE CV	50%
FN	FABRINET	50%
FNB	FNB CORP	50%
FND	FLOOR & DECOR-A	50%
FNF	FIDELITY NATIONAL FINANCIAL	50%
FNHC	FEDNAT HOLDING CO	30%
FNLC	FIRST BANCORP INC/ME	30%
FNV	FRANCO-NEVADA CORP	50%
FNWB	FIRST NORTHWEST BANCORP	30%
FOE	FERRO CORP	30%
FOLD	AMICUS THERAPEUT	50%
FOR	FORESTAR GROUP	30%
FORM	FORMFACTOR INC	50%
FORR	FORRESTER RESEAR	30%
FOSL	FOSSIL GROUP INC	30%
FOX	FOX CORP	50%
FOXA	FOX CORP - A	50%
FOXF	FOX FACTORY HOLD	50%
FR	FIRST INDUSTRIAL REALTY TR	50%
FRBA	FIRST BANK/HAMILTON NJ	30%
FRC	FIRST REPUBLIC BANK/CA	50%
FRGI	FIESTA RESTAURAN	30%
FRME	FIRST MERCHANTS CORP	40%
FRO	FRONTLINE LTD	40%

FRPH	FRP HOLDINGS INC	30%
FRPT	FRESHPET INC	50%
FRT	FEDERAL REALTY INVS TRUST	50%
FSB	FRANKLIN FINANCIAL NETWORK	30%
FSCT	FORESCOUT TECHNOLOGIES INC	40%
FSLR	FIRST SOLAR INC	50%
FSS	FEDERAL SIGNAL CORP	40%
FSTR	FOSTER (LB) CO-A	30%
FTI	TECHNIPFMC PLC	50%
FTNT	FORTINET INC	50%
FTV	FORTIVE CORP	50%
FUL	HB FULLER CO	50%
FULT	FULTON FINANCIAL CORP	40%
FUN	CEDAR FAIR LP	40%
FWONA	LIBERTY MEDIA-A	50%
FWONK	LIBERTY MEDIA CORP-LIBERTY FORMULA ONE	50%
FWRD	FORWARD AIR CORP	40%
G	GENPACT LTD	50%
GABC	GERMAN AMERICAN BANCORP	30%
GATX	GATX CORP	50%
GBCI	GLACIER BANCORP INC	50%
GBL	GAMCO INVESTORS INC-A	30%
GBLI	GLOBAL INDEMNITY LTD	30%
GBT	GLOBAL BLOOD THE	50%
GBX	GREENBRIER COMPANIES INC	30%
GCO	GENESCO INC	30%
GCP	GCP APPLIED TECH	40%
GD	GENERAL DYNAMICS CORP	50%
GDDY	GODADDY INC-A	50%
GDEN	GOLDEN ENTERTAIN	30%
GDOT	GREEN DOT CORP-CLASS A	50%
GDS	GDS HLDGS - ADR	50%
GDY	VANECK VECTORS GOLD MINERS ETF	50%
GDYJ	VANECK VECTORS JUNIOR GOLD MINERS ETF	50%
GE	GENERAL ELECTRIC CO	50%
GEF	GREIF INC-CL A	40%
GENC	GENCOR INDUSTRIES INC	30%
GEO	GEO GROUP INC/THE	40%
GEOS	GEOSPACE TECHNOL	30%
GES	GUESS? INC	30%
GFF	GRIFFON CORP	30%
GFI	GOLD FIELDS LTD	50%
GGG	GRACO INC	50%
GHC	GRAHAM HOLDING-B	40%
GHL	GREENHILL & CO INC	30%
GHM	GRAHAM CORP	30%
GIII	G III APPAREL	30%
GIL	GILDAN ACTIVEWEAR INC	50%
GILD	GILEAD SCIENCES	50%
GIS	GENERAL MILLS IN	50%
GKOS	GLAUKOS CORP	40%
GLD	SPDR GOLD SHARES	50%
GLDD	GREAT LAKES DREDGE & DOCK CO	30%
GLIBA	GCI LIBERTY - A	50%
GLNG	GOLAR LNG LTD	30%
GLOB	GLOBANT SA	50%
GLPI	GAMING AND LEISURE PROPRTIE	50%
GLRE	GREENLIGHT CAPITAL RE LTD-A	30%



GLT	GLATFELTER	30%
GLUU	GLU MOBILE INC	40%
GLW	CORNING INC	50%
GM	GENERAL MOTORS C	50%
GMED	GLOBUS MEDICAL I	50%
GMRE	GLOBAL MEDICAL REIT INC	30%
GMS	GMS INC	30%
GNK	GENCO SHIPPING & TRADING LTD	30%
GNL	GLOBAL NET LEASE INC	40%
GNMK	GENMARK DIAGNOST	30%
GNRC	GENERAC HOLDINGS INC	50%
GNTX	GENTEX CORP	50%
GOLD	BARRICK GOLD CORP	50%
GOLF	ACUSHNET HOLDING	50%
GOOD	GLADSTONE COMMERCIAL CORP	30%
GOOG	ALPHABET INC	50%
GOOGL	ALPHABET INC-A	50%
GOOS	CANADA GOOSE HOLDINGS INC	50%
GOVT	ISHARES US TREASURY BOND ETF	50%
GPC	GENUINE PARTS CO	50%
GPI	GROUP 1 AUTOMOTI	40%
GPK	GRAPHIC PACKAGIN	50%
GPMT	GRANITE POINT MORTGAGE TRUST	30%
GPN	GLOBAL PAYMENTS INC	50%
GPRE	GREEN PLAINS INC	30%
GPRK	GEOPARK LTD	30%
GPS	GAP INC/THE	50%
GRA	WR GRACE & CO	50%
GRBK	GREEN BRICK PART	30%
GRC	GORMAN-RUPP CO	30%
GRFS	GRIFOLS SA	50%
GRMN	GARMIN LTD	50%
GRPN	GROUPON INC	30%
GRUB	GRUBHUB INC	50%
GS	GOLDMAN SACHS GROUP INC	50%
GSBC	GREAT SOUTHERN BANCORP INC	30%
GSIT	GSI TECHNOLOGY INC	30%
GSK	GLAXOSMITHKLINE PLC	50%
GSLC	GOLDMAN SACHS ACTIVEBETA U.S. LARGE CAP EQUITY ETF	50%
GT	GOODYEAR TIRE	50%
GTES	GATES INDUSTRIAL CORP PLC	50%
GTHX	G1 THERAPEUTICS	30%
GTLS	CHART INDUSTRIES INC	40%
GTN	GRAY TELEVISION	40%
GTY	GETTY REALTY CORP	40%
GUNR	FLEXSHARES GLOBAL UPSTREAM NATURAL RESOURCES INDEX FUND	50%
GVA	GRANITE CONSTRUCTION INC	30%
GWB	GREAT WESTERN BANCORP INC	30%
GWPH	GW PHARMACEUTICALS PLC	50%
GWRE	GUIDEWIRE SOFTWARE INC	50%
GWW	WW GRAINGER INC	50%
H	HYATT HOTELS-A	50%
HA	HAWAIIAN HOLDING	30%
HAE	HAEMONETICS CORP	50%
HAFC	HANMI FINANCIAL CORPORATION	30%
HAIN	HAIN CELESTIAL	50%
HAL	HALLIBURTON CO	50%
HALO	HALOZYME THERAPE	50%

HAS	HASBRO INC	50%
HASI	HANNON ARMSTRONG SUSTAINABLE	50%
HAYN	HAYNES INTL INC	30%
HBAN	HUNTINGTON BANCSHARES INC	50%
HBB	HAMILTON -A	30%
HBCP	HOME BANCORP INC	30%
HBI	HANESBRANDS INC	50%
HBMD	HOWARD BANCORP INC	30%
HBNC	HORIZON BANCORP INC/IN	30%
HCA	HCA HEALTHCARE I	50%
HCC	WARRIOR MET COAL	30%
HCCI	HERITAGE-CRYSTAL CLEAN INC	30%
HCI	HCI GROUP INC	30%
HCKT	HACKETT GROUP	30%
HCM	HUTCHISON CHINA MEDITECH LTD	50%
HCSG	HEALTHCARE SERVS	40%
HD	HOME DEPOT INC	50%
HDB	HDFC BANK LTD	50%
HDS	HD SUPPLY HOLDINGS INC	50%
HE	HAWAIIAN ELECTRIC INDS	50%
HEES	H&E EQUIPMENT SERVICES INC	30%
HEI	HEICO CORP	50%
HELE	HELEN OF TROY	50%
HES	HESS CORP	50%
HFC	HOLLYFRONTIER CO	50%
HFVA	HERITAGE FINANCIAL CORP	30%
HGV	HILTON GRAND VAC	40%
HHC	HOWARD HUGHES CORP/THE	50%
HI	HILLENBRAND INC	40%
HIG	HARTFORD FINANCIAL SVCS GRP	50%
HII	HUNTINGTON INGALLS INDUSTRIE	50%
HIW	HIGHWOODS PROPERTIES INC	50%
HLF	HERBALIFE NUTRIT	50%
HLI	HOULIHAN LOKEY INC	50%
HLIT	HARMONIC INC	30%
HLNE	HAMILTON LANE INC-CLASS A	50%
HLT	HILTON WORLDWIDE	50%
HMN	HORACE MANN EDUCATORS	40%
HMST	HOMESTREET INC	30%
HMSY	HMS HOLDINGS COR	50%
HMTV	HEMISPHERE MEDIA	30%
HNI	HNI CORP	40%
HOFT	HOOVER FURNITURE	30%
HOG	HARLEY-DAVIDSON	50%
HOLI	HOLLYSYS AUTOMATION TECHNOLO	30%
HOLX	HOLOGIC INC	50%
HOMB	HOME BANCSHARES INC	50%
HON	HONEYWELL INTERNATIONAL INC	50%
HONE	HARBORONE BANCORP INC	30%
HOPE	HOPE BANCORP INC	40%
HP	HELMERICH & PAYN	50%
HPE	HEWLETT PACKARD ENTERPRISE	50%
HPP	HUDSON PACIFIC PROPERTIES IN	50%
HPQ	HP INC	50%
HQY	HEALTH EQUITY INC	50%
HR	HEALTHCARE REALTY TRUST INC	50%
HRB	H&R BLOCK INC	50%
HRC	HILL-ROM HOLDING	50%

HRI	HERC HOLDINGS INC	30%
HRL	HORMEL FOODS CRP	50%
HRTX	HERON THERAPEUTI	40%
HSC	HARSCO CORP	30%
HSIC	HENRY SCHEIN INC	50%
HSII	HEIDRICK & STRUG	30%
HST	HOST HOTELS & RESORTS INC	50%
HSTM	HEALTHSTREAM INC	30%
HSY	HERSHEY CO/THE	50%
HT	HERSHA HOSPITALITY TRUST	30%
HTA	HEALTHCARE TRUST OF AME-CL A	50%
HTBI	HOMETRUST BANCSHARES INC	30%
HTBK	HERITAGE COMMERCE CORP	30%
HTGC	HERCULES CAPITAL INC	40%
HTH	HILLTOP HOLDINGS INC	40%
HTHT	HUAZHU GROUP LTD	50%
HTLD	HEARTLAND EXPRESS INC	40%
HTLF	HEARTLAND FINANCIAL USA INC	40%
HUBB	HUBBELL INC	50%
HUBG	HUB GROUP INC-CL A	40%
HUBS	HUBSPOT INC	50%
HUD	HUDSON LTD-CL A	30%
HUM	HUMANA INC	50%
HUN	HUNTSMAN CORP	50%
HURC	HURCO COMPANIES INC	30%
HURN	HURON CONSULTING	30%
HVT	HAVERTY FURNITUR	30%
HWKN	HAWKINS INC	30%
HXL	HEXCEL CORP	50%
HY	HYSTER-YALE MATERIALS	30%
HYG	ISHARES IBOXX HIGH YIELD CORPORATE BOND ETF	50%
HYLB	XTRACKERS USD HIGH YIELD CORPORATE BOND ETF	50%
HZNP	HORIZON THERAPEU	50%
HZO	MARINEMAX INC	30%
IAC	IAC/INTERACTIVEC	50%
IAGG	ISHARES CORE INTERNATIONAL AGGREGATE BOND ETF	50%
IART	INTEGRA LIFESCIE	50%
IAU	ISHARES GOLD TRUST	50%
IBCP	INDEPENDENT BANK CORP - MICH	30%
IBKC	IBERIABANK CORP	50%
IBKR	INTERACTIVE BROKERS GRO-CL A	50%
IBM	INTL BUSINESS MACHINES CORP	50%
IBN	ICICI BANK LTD	50%
IBOC	INTERNATIONAL BANCSHARES CRP	40%
IBP	INSTALLED BUILDING PRODUCTS	50%
IBTX	INDEPENDENT BANK GROUP INC	40%
ICE	INTERCONTINENTAL EXCHANGE IN	50%
ICFI	ICF INTERNATIONAL INC	40%
ICHR	ICHOR HOLDINGS LTD	30%
ICLR	ICON PLC	50%
ICPT	INTERCEPT PHARMA	50%
ICUI	ICU MEDICAL	50%
IDA	IDACORP INC	50%
IDCC	INTERDIGITAL INC	40%
IDT	IDT CORP-CLASS B	30%
IDXX	IDEXX LABS	50%
IEC	IEC ELECTRONICS CORP	30%
IEFA	ISHARES CORE MSCI EAFE ETF	50%

IEMG	ISHARES CORE MSCI EMERGING MARKETS ETF	50%
IESC	IES HOLDINGS INC	30%
IEX	IDEX CORP	50%
IGT	INTERNATIONAL GA	50%
IIIN	INSTEEL INDUSTRIES INC	30%
IIN	INTRICON CORP	30%
IIVI	II-VI INC	50%
IJH	ISHARES CORE S&P MID-CAP ETF	50%
IJR	ISHARES CORE S&P SMALL-CAP ETF	50%
ILMN	ILLUMINA INC	50%
ILPT	INDUSTRIAL LOGISTICS PROPERT	40%
IMAX	IMAX CORP	30%
IMKTA	INGLES MARKETS-A	30%
IMMR	IMMERSION CORPORATION	30%
IMMU	IMMUNOMEDICS INC	50%
INBK	FIRST INTERNET BANCORP	30%
INCY	INCYTE CORP	50%
INDB	INDEPENDENT BANK CORP/MA	50%
INFN	INFINERA CORP	40%
INFO	IHS MARKIT LTD	50%
INFU	INFUSYSTEM HOLD	30%
INFY	INFOSYS LTD	50%
ING	ING GROEP NV	50%
INGN	INOGEN INC	30%
INGR	INGREDION INC	50%
INN	SUMMIT HOTEL PROPERTIES INC	30%
INOV	INOVALON HOLDINGS INC - A	50%
INSM	INSMED INC	50%
INSW	INTERNATIONAL SEAWAYS INC	30%
INT	WORLD FUEL SVCS	40%
INTC	INTEL CORP	50%
INTU	INTUIT INC	50%
INVA	INNOVIVA INC	40%
INVH	INVITATION HOMES INC	50%
IONS	IONIS PHARMACEUT	50%
IOSP	INNOSPEC INC	40%
IOTS	ADESTO TECHNOLOGIES CORP	30%
IOVA	IOVANCE BIOTHERA	50%
IP	INTL PAPER CO	50%
IPAR	INTER PARFUMS	40%
IPG	INTERPUBLIC GRP	50%
IPGP	IPG PHOTONICS CORP	50%
IPHI	INPHI CORP	50%
IQV	IQVIA HOLDINGS I	50%
IR	INGERSOLL-RAND INC	50%
IRDM	IRIDIUM COMMUNIC	50%
IRET	INVESTORS REAL ESTATE TRUST	30%
IRM	IRON MOUNTAIN INC	50%
IRT	INDEPENDENCE REALTY TRUST IN	40%
IRTC	IRHYTHM TECHNOLO	50%
IRWD	IRONWOOD PHARMAC	40%
ISBC	INVESTORS BANCORP INC	50%
ISRG	INTUITIVE SURGIC	50%
IT	GARTNER INC	50%
ITCI	INTRA-CELLULAR T	40%
ITGR	INTEGER HOLDINGS	50%
ITOT	ISHARES CORE S&P TOTAL US STOCK MARKET ETF	50%
ITRI	ITRON INC	50%

ITRN	ITURAN LOCATION AND CONTROL	30%
ITT	ITT INC	50%
ITUB	ITAU UNIBANCO HOLDING SA	50%
ITW	ILLINOIS TOOL WORKS	50%
IVC	INVACARE CORP	30%
IVV	ISHARES CORE S&P 500 ETF	50%
IVW	ISHARES S&P 500 GROWTH ETF	50%
IVZ	INVESCO LTD	50%
IWD	ISHARES RUSSELL 1000 VALUE ETF	50%
IWF	ISHARES RUSSELL 1000 GROWTH ETF	50%
IWS	ISHARES RUSSELL MID-CAP VALUE ETF	50%
JACK	JACK IN THE BOX	40%
JAX	J ALEXANDER	30%
JAZZ	JAZZ PHARMACEUTI	50%
JBGS	JBG SMITH PROPERTIES	50%
JBHT	HUNT (JB) TRANSPRT SVCS INC	50%
JBL	JABIL INC	50%
JBLU	JETBLUE AIRWAYS	50%
JBSS	JOHN B SANFILIPP	30%
JBT	JOHN BEAN TECHNOLOGIES CORP	50%
JCAP	JERNIGAN CAPITAL INC	30%
JCI	JOHNSON CONTROLS INTERNATION	50%
JCOM	J2 GLOBAL INC	50%
JCS	COMMUNICATIONS SYSTEMS INC	30%
JD	JD.COM INC-ADR	50%
JELD	JELD-WEN HOLDING	40%
JHG	JANUS HENDERSON GROUP PLC	50%
JJSF	J & J SNACK FOOD	50%
JKHY	JACK HENRY & ASSOCIATES INC	50%
JKS	JINKOSOLAR-ADR	30%
JLL	JONES LANG LASALLE INC	50%
JNCE	JOUNCE THERAPEUT	30%
JNJ	JOHNSON&JOHNSON	50%
JNPR	JUNIPER NETWORKS INC	50%
JOBS	51JOB INC-ADR	50%
JOE	ST JOE CO	40%
JOUT	JOHNSON OUTDOO-A	30%
JPM	JPMORGAN CHASE & CO	50%
JRVR	JAMES RIVER GROUP HOLDINGS L	40%
JWN	NORDSTROM INC	50%
K	KELLOGG CO	50%
KAI	KADANT INC	40%
KALU	KAISER ALUMINUM	40%
KAMN	KAMAN CORP	40%
KAR	KAR AUCTION SERV	40%
KBAL	KIMBALL INTL -B	30%
KBH	KB HOME	50%
KBR	KBR INC	50%
KE	KIMBALL ELECTRONICS INC	30%
KELYA	KELLY SERVICES-A	30%
KEX	KIRBY CORP	50%
KEY	KEYCORP	50%
KEYS	KEYSIGHT TECHNOLOGIES IN	50%
KFRC	KFORCE INC	30%
KFY	KORN FERRY	40%
KGC	KINROSS GOLD CORP	50%
KHC	KRAFT HEINZ CO/T	50%
KIM	KIMCO REALTY CORP	50%

KKR	KKR & CO INC	50%
KLAC	KLA CORP	50%
KLIC	KULICKE & SOFFA INDUSTRIES	40%
KMB	KIMBERLY-CLARK	50%
KMI	KINDER MORGAN IN	50%
KMPR	KEMPER CORP	50%
KMT	KENNAMETAL INC	50%
KMX	CARMAX INC	50%
KN	KNOWLES CORP	40%
KNL	KNOLL INC	30%
KNSL	KINSALE CAPITAL GROUP INC	50%
KNX	KNIGHT-SWIFT TRANSPORTATION	50%
KO	COCA-COLA CO/THE	50%
KOP	KOPPERS HOLDINGS	30%
KPTI	KARYOPHARM THERA	40%
KR	KROGER CO	50%
KRA	KRATON CORP	30%
KRC	KILROY REALTY CORP	50%
KREF	KKR REAL ESTATE FINANCE TRUS	30%
KRG	KITE REALTY GROUP TRUST	30%
KRNT	KORNIT DIGITAL LTD	50%
KRNY	KEARNY FINANCIAL CORP/MD	30%
KRO	KRONOS WORLDWIDE	40%
KSA	ISHARES MSCI SAUDI ARABIA ETF	50%
KSS	KOHL'S CORP	50%
KSU	KANSAS CITY SOUTHERN	50%
KT	KT CORP	50%
KTOS	KRATOS DEFENSE & SECURITY	40%
KURA	KURA ONCOLOGY IN	40%
KVHI	KVH INDUSTRIES	30%
KW	KENNEDY-WILSON HOLDINGS INC	50%
L	LOEWS CORP	50%
LAD	LITHIA MOTORS-A	50%
LADR	LADDER CAPITAL CORP-REIT	30%
LAMR	LAMAR ADVERTISING CO-A	50%
LANC	LANCASTER COLONY	50%
LAUR	LAUREATE EDUCA-A	50%
LAWS	LAWSON PRODUCTS INC	30%
LAZ	LAZARD LTD-CL A	50%
LB	L BRANDS INC	50%
LBAI	LAKELAND BANCORP INC	30%
LBC	LUTHER BURBANK CORP	30%
LBRDA	LIBERTY BR-A	50%
LBRDK	LIBERTY BROADBAND CORP	50%
LBRT	LIBERTY OILFIE-A	30%
LBTYA	LIBERTY GLOBAL-A	50%
LBTYK	LIBERTY GLOBAL PLC	50%
LC	LENDINGCLUB CORP	30%
LCI	LANNETT CO INC	30%
LCII	LCI INDUSTRIES	50%
LCNB	LCNB CORPORATION	30%
LCUT	LIFETIME BRANDS	30%
LDL	LYDALL INC	30%
LDOS	LEIDOS HOLDINGS INC	50%
LEA	LEAR CORP	50%
LECO	LINCOLN ELECTRIC HOLDINGS	50%
LEG	LEGGETT & PLATT	50%
LEN	LENNAR CORP-A	50%

LFC	CHINA LIFE INSURANCE CO LTD	50%
LFUS	LITTELFUSE INC	50%
LFVN	LIFEVANTAGE CORP	30%
LH	LABORATORY CP	50%
LHCG	LHC GROUP INC	50%
LII	LENNOX INTERNATIONAL INC	50%
LILA	LIBERTY LATI-A	40%
LILAK	LIBERTY LATIN AMERICA LTD	40%
LIN	LINDE PLC	50%
LITE	LUMENTUM HOLDINGS INC	50%
LIVN	LIVANOVA PLC	50%
LKFN	LAKELAND FINANCIAL CORP	40%
LKQ	LKQ CORP	50%
LLNW	LIMELIGHT NETWORKS INC	30%
LLY	ELI LILLY & CO	50%
LM	LEGG MASON INC	50%
LMAT	LEMAITRE VASCULA	30%
LMNX	LUMINEX CORP	40%
LMT	LOCKHEED MARTIN CORP	50%
LNC	LINCOLN NATIONAL CORP	50%
LNDC	LANDEC CORP	30%
LNG	CHENIERE ENERGY	50%
LNN	LINDSAY CORP	30%
LNT	ALLIANT ENERGY CORP	50%
LNTH	LANTHEUS HOLDING	30%
LOB	LIVE OAK BANCSHARES INC	30%
LOGM	LOGMEIN INC	50%
LOPE	GRAND CANYON EDU	50%
LORL	LORAL SPACE & CO	30%
LOW	LOWE'S COS INC	50%
LPG	DORIAN LPG LTD	30%
LPLA	LPL FINANCIAL HOLDINGS INC	50%
LPSN	LIVEPERSON INC	50%
LPX	LOUISIANA-PACIFI	50%
LQD	ISHARES IBOXX \$ INVESTMENT GRADE CORPORATE BOND ETF	50%
LQDT	LIQUIDITY SERVIC	30%
LRCX	LAM RESEARCH CORP	50%
LRN	K12 INC	40%
LSCC	LATTICE SEMICONDUCTOR CORP	50%
LSI	LIFE STORAGE INC	50%
LSTR	LANDSTAR SYSTEM INC	50%
LSXMA	LIBERTY MEDIA- A	50%
LSXMK	LIBERTY MEDIA CORP-LIBERTY SIRIUSXM	50%
LTC	LTC PROPERTIES INC	40%
LULU	LULULEMON ATH	50%
LUV	SOUTHWEST AIR	50%
LVS	LAS VEGAS SANDS	50%
LW	LAMB WESTON	50%
LX	LEXINFINTech HOLDINGS L-ADR	50%
LXFR	LUXFER HOLDINGS PLC	30%
LXP	LEXINGTON REALTY TRUST	50%
LYB	LYONDELLBASELL-A	50%
LYTS	LSI INDUSTRIES INC	30%
LYV	LIVE NATION ENTE	50%
LZB	LA-Z-BOY INC	40%
MA	MASTERCARD INC - A	50%
MAA	MID-AMERICA APARTMENT COMM	50%
MAN	MANPOWERGROUP IN	50%

MANH	MANHATTAN ASSOCIATES INC	50%
MANT	MANTECH INTERNATIONAL CORP-A	50%
MANU	MANCHESTER UNI-A	50%
MAR	MARRIOTT INTL-A	50%
MAS	MASCO CORP	50%
MASI	MASIMO CORP	50%
MAT	MATTEL INC	50%
MATW	MATTHEWS INTL-A	30%
MATX	MATSON INC	40%
MBB	ISHARES MBS ETF	50%
MBI	MBIA INC	50%
MBIN	MERCHANTS BANCORP/IN	30%
MBT	MOBILE TELESYSTEMS PJSC	50%
MBUU	MALIBU BOATS-A	40%
MBWM	MERCANTILE BANK CORP	30%
MC	MOELIS & CO - CLASS A	50%
MCBC	MACATAWA BANK CORP	30%
MCD	MCDONALDS CORP	50%
MCFT	MASTERCRAFT BOAT	30%
MCHP	MICROCHIP TECHNOLOGY INC	50%
MCK	MCKESSON CORP	50%
MCO	MOODY'S CORP	50%
MCRI	MONARCH CASINO	30%
MCS	MARCUS CORP	30%
MCY	MERCURY GENERAL CORP	50%
MD	MEDNAX INC	40%
MDB	MONGODDB INC	50%
MDC	MDC HOLDINGS INC	50%
MDLZ	MONDELEZ INTER-A	50%
MDP	MEREDITH CORP	50%
MDRX	ALLSCRIPTS HEALTHCARE SOLUTI	40%
MDT	MEDTRONIC PLC	50%
MDU	MDU RES GROUP	50%
MEDP	MEDPACE HOLDINGS	50%
MEET	MEET GROUP INC/T	30%
MEI	METHODE ELEC	40%
MELI	MERCADOLIBRE INC	50%
MEOH	METHANEX CORP	40%
MERC	MERCER INTERNATI	30%
MET	METLIFE INC	50%
MFC	MANULIFE FINANCIAL CORP	50%
MFGP	MICRO FOCUS INTERNATIONAL PLC	40%
MFNC	MACKINAC FINANCIAL CORP	30%
MGA	MAGNA INTERNATIONAL INC	50%
MGC	VANGUARD MEGA CAP ETF	50%
MGEE	MGE ENERGY INC	50%
MGLN	MAGELLAN HEALTH	40%
MGM	MGM RESORTS INTE	50%
MGNX	MACROGENICS INC	40%
MGP	MGM GROWTH PROPERTIES LLC-A	50%
MGRC	MCGRATH RENTCORP	40%
MHK	MOHAWK INDS	50%
MHO	M/I HOMES INC	30%
MIC	MACQUARIE INFRASTRUCTURE COR	50%
MIDD	MIDDLEBY CORP	50%
MIME	MIMECAST LTD	50%
MINI	MOBILE MINI INC	40%
MINT	PIMCO ENHANCED SHORT MATURITY ACTIVE EXCHANGE-TRADED FUND	50%



MITK	MITEK SYSTEMS INC	30%
MIXT	MIX TELEMATICS LTD	50%
MKC	MCCORMICK-N/V	50%
MKL	MARKEL CORP	50%
MKSI	MKS INSTRUMENTS INC	50%
MKTX	MARKETAXESS HOLDINGS INC	50%
MLCO	MELCO RESO-ADR	50%
MLHR	HERMAN MILLER	40%
MLI	MUELLER INDUSTRIES INC	40%
MLM	MARTIN MAR MTL	50%
MLR	MILLER INDS/TENN	30%
MMC	MARSH & MCLENNAN COS	50%
MMI	MARCUS & MILLICHAP INC	40%
MMM	3M CO	50%
MMP	MAGELLAN MIDSTRE	50%
MMS	MAXIMUS INC	50%
MMSI	MERIT MEDICAL	50%
MMYT	MAKEMYTRIP LTD	40%
MNR	MONMOUTH REAL ESTATE INV COR	40%
MNRO	MONRO INC	40%
MNST	MONSTER BEVERAGE	50%
MNTA	MOMENTA PHARMACE	50%
MO	ALTRIA GROUP INC	50%
MOD	MODINE MFG CO	30%
MODN	MODEL N INC	40%
MOFG	MIDWESTONE FINANCIAL GROUP I	30%
MOH	MOLINA HEALTHCAR	50%
MOMO	MOMO INC-ADR	50%
MORN	MORNINGSTAR INC	50%
MOS	MOSAIC CO/THE	50%
MOV	MOVADO GROUP	30%
MPAA	MOTORCAR PARTS	30%
MPC	MARATHON PETROLE	50%
MPLX	MPLX LP	50%
MPW	MEDICAL PROPERTIES TRUST INC	50%
MPWR	MONOLITHIC POWER SYSTEMS INC	50%
MPX	MARINE PRODUCTS	30%
MRC	MRC GLOBAL INC	30%
MRCY	MERCURY SYSTEMS INC	50%
MRK	MERCK & CO	50%
MRLN	MARLIN BUSINESS SERVICES INC	30%
MRO	MARATHON OIL	50%
MRSN	MERSANA THERAPEU	40%
MRTN	MARTEN TRANSPORT LTD	40%
MRTX	MIRATI THERAPEUT	50%
MRVL	MARVELL TECHNOLOGY GROUP LTD	50%
MS	MORGAN STANLEY	50%
MSA	MSA SAFETY INC	50%
MSBI	MIDLAND STATES BANCORP INC	30%
MSCI	MSCI INC	50%
MSEX	MIDDLESEX WATER CO	40%
MSFT	MICROSOFT CORP	50%
MSGN	MSG NETWORKS- A	30%
MSI	MOTOROLA SOLUTIONS INC	50%
MSM	MSC INDUSTRIAL DIRECT CO-A	50%
MSON	MISONIX INC	30%
MSTR	MICROSTRATEGY INC-CL A	40%
MTB	M & T BANK CORP	50%

MTD	METTLER-TOLEDO	50%
MTDR	MATADOR RESOURCE	40%
MTEM	MOLECULAR TEMPLA	30%
MTG	MGIC INVESTMENT CORP	50%
MTH	MERITAGE HOMES C	50%
MTN	VAIL RESORTS	50%
MTOR	MERITOR INC	40%
MTRN	MATERION CORP	40%
MTRX	MATRIX SERVICE	30%
MTSC	MTS SYSTEMS CORP	30%
MTSI	MACOM TECHNOLOGY SOLUTIONS H	50%
MTW	MANITOWOC COMPANY INC	50%
MTX	MINERALS TECH	40%
MTZ	MASTEC INC	50%
MU	MICRON TECHNOLOGY INC	50%
MUR	MURPHY OIL CORP	50%
MUSA	MURPHY USA INC	50%
MWA	MUELLER WATER PRODUCTS INC-A	40%
MX	MAGNACHIP SEMICONDUCT	30%
MXIM	MAXIM INTEGRATED PRODUCTS	50%
MXL	MAXLINEAR INC	40%
MYE	MYERS INDS INC	30%
MYGN	MYRIAD GENETICS	30%
MYL	MYLAN NV	50%
MYOK	MYOKARDIA INC	50%
MYOV	MYOVANT SCIENCES	40%
MYRG	MYR GROUP INC/DELAWARE	30%
NAII	NATURAL ALT INTL	30%
NATI	NATIONAL INSTRUMENTS CORP	50%
NATR	NATURE'S SUNSHNE	30%
NAV	NAVISTAR INTERNATIONAL CORP	50%
NAVI	NAVIENT CORP	40%
NBHC	NATIONAL BANK HOLD-CL A	30%
NBIX	NEUROCRINE BIOSC	50%
NBL	NOBLE ENERGY INC	50%
NBN	NORTHEAST BANK	30%
NBTB	N B T BANCORP INC	40%
NC	NACCO INDS-CL A	30%
NCLH	NORWEGIAN CRUISE	50%
NCR	NCR CORPORATION	50%
NDAQ	NASDAQ INC	50%
NDLS	NOODLES & CO	30%
NDSN	NORDSON CORP	50%
NEE	NEXTERA ENERGY INC	50%
NEM	NEWMONT CORP	50%
NEO	NEOGENOMICS INC	50%
NEOG	NEOGEN CORP	50%
NEP	NEXTERA ENERGY PARTNERS LP	50%
NESR	NATIONAL ENERGY	30%
NEU	NEWMARKET CORP	50%
NEWR	NEW RELIC INC	50%
NFBK	NORTHFIELD BANCORP INC	30%
NFG	NATIONAL FUEL GAS CO	50%
NFLX	NETFLIX INC	50%
NG	NOVAGOLD RESOURCES INC	50%
NGHC	NATIONAL GENERAL HLDGS	50%
NGVC	NATURAL GROCERS	30%
NGVT	INGEVITY CORP	50%

NHC	NATL HEALTHCARE	30%
NHI	NATL HEALTH INVESTORS INC	50%
NI	NISOURCE INC	50%
NICE	NICE LTD	50%
NJR	NEW JERSEY RESOURCES CORP	50%
NKE	NIKE INC -CL B	50%
NKTR	NEKTAR THERAPEUT	50%
NLSN	NIELSEN HOLDINGS PLC	50%
NLY	ANNALY CAPITAL MANAGEMENT IN	50%
NMFC	NEW MOUNTAIN FINANCE CORP	30%
NMIH	NMI HOLDINGS INC-CLASS A	40%
NNI	NELNET INC-CL A	40%
NNN	NATIONAL RETAIL PROPERTIES	50%
NOC	NORTHROP GRUMMAN CORP	50%
NOMD	NOMAD FOODS	50%
NOV	NATL OILWELL VAR	50%
NOVT	NOVANTA INC	50%
NOW	SERVICENOW INC	50%
NP	NEENAH INC	30%
NPK	NATIONAL PRESTO INDS INC	30%
NPO	ENPRO INDUSTRIES INC	30%
NPTN	NEOPHOTONICS CORP	30%
NRG	NRG ENERGY INC	50%
NRIM	NORTHRIM BANCORP INC	30%
NRZ	NEW RESIDENTIAL INVESTMENT	50%
NS	NUSTAR ENERGY LP	40%
NSA	NATIONAL STORAGE AFFILIATES	50%
NSC	NORFOLK SOUTHERN CORP	50%
NSIT	INSIGHT ENTERPRISES INC	40%
NSP	INSPERITY INC	50%
NSSC	NAPCO SECURITY TECHNOLOGIES	30%
NSTG	NANOSTRING TECHN	40%
NTAP	NETAPP INC	50%
NTB	BANK OF NT BUTTERFIELD & SON LTD	40%
NTCT	NETSCOUT SYSTEMS INC	40%
NTES	NETEASE INC-ADR	50%
NTGR	NETGEAR INC	30%
NTNX	NUTANIX INC - A	50%
NTR	NUTRIEN LTD	50%
NTRA	NATERA INC	50%
NTRS	NORTHERN TRUST CORP	50%
NUAN	NUANCE COMMUNICATIONS INC	50%
NUE	NUCOR CORP	50%
NUS	NU SKIN ENTERP-A	50%
NUVA	NUVASIVE INC	50%
NVCR	NOVOCURE LTD	50%
NVDA	NVIDIA CORP	50%
NVEE	NV5 GLOBAL INC	30%
NVGS	NAVIGATOR HOLDINGS LTD	30%
NVMI	NOVA MEASURING INSTRUMENTS	40%
NVO	NOVO NORDISK A/S	50%
NVRO	NEVRO CORP	50%
NVS	NOVARTIS AG	50%
NVTA	INVITAE CORP	50%
NWBI	NORTHWEST BANCSHARES INC	40%
NWE	NORTHWESTERN CORP	50%
NWL	NEWELL BRANDS IN	50%
NWN	NORTHWEST NATURAL HOLDING CO	40%

NWPX	NORTHWEST PIPE	30%
NWS	NEWS CORP	50%
NWSA	NEWS CORP-CL A	50%
NX	QUANEX BUILDING	30%
NXPI	NXP SEMICONDUCTORS NV	50%
NXRT	NEXPOINT RESIDENTIAL	30%
NXST	NEXSTAR MEDIA-A	50%
NYCB	NEW YORK COMMUNITY BANCORP	50%
NYT	NEW YORK TIMES-A	50%
O	REALTY INCOME CORP	50%
OBCI	OCEAN BIO-CHEM	30%
OC	OWENS CORNING	50%
OCFC	OCEANFIRST FINANCIAL CORP	40%
OCSI	OAKTREE STRATEGIC INCOME COR	30%
OCUL	OCULAR THERAPEUT	30%
ODC	OIL DRI CORP	30%
ODFL	OLD DOMINION FREIGHT LINE	50%
ODT	ODONATE THERAPEU	40%
OFC	CORPORATE OFFICE PROPERTIES	50%
OFG	OFG BANCORP	30%
OFIX	ORTHOFIX MEDICAL	30%
OGE	OGE ENERGY CORP	50%
OGS	ONE GAS INC	50%
OHI	OMEGA HEALTHCARE INVESTORS	50%
OI	O-I GLASS INC	50%
OII	OCEANEERING INTL	30%
OIS	OIL STATES INTL	30%
OKE	ONEOK INC	50%
OKTA	OKTA INC	50%
OLED	UNIVERSAL DISPLAY CORP	50%
OLLI	OLLIE'S BARGAIN	50%
OLN	OLIN CORP	50%
OMC	OMNICOM GROUP	50%
OMCL	OMNICELL INC	50%
OMF	ONEMAIN HOLDINGS INC	50%
OMI	OWENS & MINOR	30%
ON	ON SEMICONDUCTOR CORP	50%
ONB	OLD NATIONAL BANCORP	50%
OOMA	OOMA INC	30%
OPBK	OP BANCORP	30%
OPY	OPPENHEIMER HOLDINGS-CL A	30%
OR	OSISKO GOLD ROYALTIES LTD	40%
ORA	ORMAT TECHNOLOGIES INC	50%
ORCL	ORACLE CORP	50%
ORI	OLD REPUBLIC INTL CORP	50%
ORLY	O'REILLY AUTOMOT	50%
ORRF	ORRSTOWN FINL SERVICES INC	30%
OSBC	OLD SECOND BANCORP INC	30%
OSIS	OSI SYSTEMS INC	40%
OSK	OSHKOSH CORP	50%
OSUR	ORASURE TECH	30%
OTEX	OPEN TEXT CORP	50%
OTTR	OTTER TAIL CORP	40%
OUT	OUTFRONT MEDIA INC	50%
OXFD	OXFORD IMMUNOTEC	30%
OXM	OXFORD INDS INC	30%
OXY	OCCIDENTAL PETE	50%
PAA	PLAINS ALL AMER	50%

PAAS	PAN AMERICAN SILVER CORP	50%
PACW	PACWEST BANCORP	50%
PAG	PENSKE AUTOMOTIV	50%
PAGP	PLAINS GP HOLD-A	40%
PAGS	PAGSEGURO DIGITAL LTD-CL A	50%
PAHC	PHIBRO ANIMAL-A	40%
PANW	PALO ALTO NETWORKS INC	50%
PARR	PAR PACIFIC HOLD	30%
PATK	PATRICK INDS INC	40%
PAYC	PAYCOM SOFTWARE INC	50%
PAYX	PAYCHEX INC	50%
PB	PROSPERITY BANCSHARES INC	50%
PBA	PEMBINA PIPELINE CORP	50%
PBCT	PEOPLE'S UNITED FINANCIAL	50%
PBF	PBF ENERGY INC-A	40%
PBH	PRESTIGE CONSUME	40%
PBR	PETROLEO BRASILEIRO SA	50%
PBYI	PUMA BIOTECHNOLO	30%
PCAR	PACCAR INC	50%
PCG	P G & E CORP	50%
PCH	POTLATCHDELTIC CORP	50%
PCRX	PACIRA BIOSCIENC	40%
PCSB	PCSB FINANCIAL CORP	30%
PCTY	PAYLOCITY HOLDING CORP	50%
PCYO	PURE CYCLE CORP	30%
PDCE	PDC ENERGY INC	40%
PDCO	PATTERSON COS	50%
PDFS	PDF SOLUTIONS INC	30%
PDLB	PDL COMMUNITY BANCORP	30%
PDM	PIEDMONT OFFICE REALTY TRU-A	50%
PE	PARSLEY ENERGY-A	50%
PEB	PEBBLEBROOK HOTEL TRUST	40%
PEBO	PEOPLES BANCORP INC	30%
PEG	PUBLIC SERVICE ENTERPRISE GP	50%
PEGA	PEGASYSTEMS INC	50%
PEN	PENUMBRA INC	50%
PENN	PENN NATL GAMING	50%
PEP	PEPSICO INC	50%
PFBC	PREFERRED BANK/LOS ANGELES	30%
PFBI	PREMIER FINANCIAL BANCORP	30%
PFE	PFIZER INC	50%
PFF	ISHARES PREFERRED & INCOME SECURITIES ETF	50%
PFG	PRINCIPAL FINANCIAL GROUP	50%
PFGC	PERFORMANCE FOOD	50%
PFLT	PENNANTPARK FLOATING RATE CA	30%
PFNX	PFENEX INC	30%
PFPT	PROOFPOINT INC	50%
PFS	PROVIDENT FINANCIAL SERVICES	30%
PG	PROCTER & GAMBLE	50%
PGC	PEAPACK GLADSTONE FINL CORP	30%
PGR	PROGRESSIVE CORP	50%
PGRE	PARAMOUNT GROUP INC	40%
PGTI	PGT INNOVATIONS	30%
PGX	INVESCO PREFERRED ETF	50%
PH	PARKER HANNIFIN CORP	50%
PHM	PULTEGROUP INC	50%
PICO	PICO HOLDINGS INC	30%
PII	POLARIS INC	50%

PINC	PREMIER INC-CL A	50%
PJT	PJT PARTNERS INC - A	50%
PK	PARK HOTELS & RESORTS INC	50%
PKBK	PARKE BANCORP INC	30%
PKE	PARK AEROSPACE CORP	30%
PKG	PACKAGING CORP	50%
PKI	PERKINELMER INC	50%
PKOH	PARK-OHIO HOLDINGS CORP	30%
PLAB	PHOTRONICS INC	30%
PLD	PROLOGIS INC	50%
PLNT	PLANET FITNESS-A	50%
PLOW	DOUGLAS DYNAMICS INC	30%
PLUS	EPLUS INC	30%
PLXS	PLEXUS CORP	40%
PM	PHILIP MORRIS IN	50%
PMD	PSYCHEMEDICS CRP	30%
PMT	PENNYMAC MORTGAGE INVESTMENT	40%
PNC	PNC FINANCIAL SERVICES GROUP	50%
PNFP	PINNACLE FINANCIAL PARTNERS	50%
PNM	PNM RESOURCES INC	50%
PNR	PENTAIR PLC	50%
PNW	PINNACLE WEST CAPITAL	50%
PODD	INSULET CORP	50%
POL	POLYONE CORP	50%
POOL	POOL CORP	50%
POR	PORTLAND GENERAL ELECTRIC CO	50%
POST	POST HOLDINGS IN	50%
POWI	POWER INTEGRATIONS INC	50%
POWL	POWELL INDUSTRIES INC	30%
PPBI	PACIFIC PREMIER BANCORP INC	50%
PPC	PILGRIM'S PRIDE	50%
PPG	PPG INDS INC	50%
PPIH	PERMA-PIPE INTERNATIONAL HOL	30%
PPL	PPL CORP	50%
PQG	PQ GROUP HOLDING	40%
PRA	PROASSURANCE CORP	30%
PRAA	PRA GROUP INC	40%
PRAH	PRA HEALTH SCIEN	50%
PRFT	PERFICIENT INC	40%
PRGO	PERRIGO CO PLC	50%
PRGS	PROGRESS SOFTWARE CORP	40%
PRI	PRIMERICA INC	50%
PRIM	PRIMORIS SERVICES CORP	30%
PRK	PARK NATIONAL CORP	40%
PRLB	PROTO LABS INC	50%
PRMW	PRIMO WATER CORP	50%
PRO	PROS HOLDINGS INC	40%
PROV	PROVIDENT FINANCIAL HLDGS	30%
PRPL	PURPLE INNOVATIO	30%
PRSC	PROVIDENCE SERVI	40%
PRTA	PROTHENA CORP PL	30%
PRU	PRUDENTIAL FINANCIAL INC	50%
PSA	PUBLIC STORAGE	50%
PSB	PS BUSINESS PARKS INC/CA	50%
PSMT	PRICESMART INC	40%
PSTG	PURE STORAGE INC - CLASS A	50%
PSX	PHILLIPS 66	50%
PSXP	PHILLIPS 66 PART	50%

PTC	PTC INC	50%
PTCT	PTC THERAPEUTICS	50%
PTGX	PROTAGONIST THER	30%
PUB	PEOPLE'S UTAH BANCORP	30%
PUMP	PROPETRO HOLDING	30%
PVBC	PROVIDENT BANCORP INC	30%
PVG	PRETIUM RESOURCES INC	40%
PVH	PVH CORP	50%
PWR	QUANTA SERVICES INC	50%
PXD	PIONEER NATURAL	50%
PYPL	PAYPAL HOLDINGS INC	50%
PZZA	PAPA JOHN'S INTL	50%
QADA	QAD INC	50%
QCOM	QUALCOMM INC	50%
QCRH	QCR HOLDINGS INC	30%
QDEL	QUIDEL CORP	50%
QGEN	QIAGEN NV	50%
QIWI	QIWI PLC-SPONSORED ADR	40%
QLYS	QUALYS INC	50%
QNST	QUINSTREET INC	30%
QRTEA	QURATE RETAIL-A	50%
QTRX	QUANTERIX CORP	30%
QTS	QTS REALTY TRUST INC-CL A	50%
QTWO	Q2 HOLDINGS INC	50%
QUAL	ISHARES EDGE MSCI USA QUALITY FACTOR ETF	50%
QUOT	QUOTIENT TECHNOL	30%
QURE	UNIQUE NV	50%
R	RYDER SYSTEM INC	50%
RACE	FERRARI NV	50%
RARE	ULTRAGENYX PHARM	50%
RAVN	RAVEN INDUSTRIES INC	30%
RBA	RITCHIE BROS AUCTIONEERS INC	50%
RBB	RBB BANCORP	30%
RBC	REGAL BELOIT CORP	50%
RBCAA	REPUBLIC BANCORP INC-CLASS A	30%
RCII	RENT-A-CENTER	40%
RCKT	ROCKET PHARMACEU	40%
RCKY	ROCKY BRANDS INC	30%
RCL	ROYAL CARIBBEAN	50%
RCM	R1 RCM INC	40%
RCUS	ARCUS BIOSCIENCE	40%
RDFN	REDFIN CORP	50%
RDN	RADIAN GROUP INC	50%
RDNT	RADNET INC	30%
RDUS	RADIUS HEALTH IN	30%
RDWR	RADWARE LTD	40%
RDY	DR REDDY'S LABORATORIES LTD	50%
RE	EVEREST RE GROUP LTD	50%
REG	REGENCY CENTERS CORP	50%
REGI	RENEWABLE ENERGY	40%
REGN	REGENERON PHARM	50%
RESI	FRONT YARD RESIDENTIAL CORP	30%
RETA	REATA PHARMACE-A	50%
REVG	REV GROUP INC	30%
REX	REX AMERICAN RES	30%
REXR	REXFORD INDUSTRIAL REALTY IN	50%
RF	REGIONS FINANCIAL CORP	50%
RFL	RAFAEL HOLDINGS INC-CLASS B	30%

RGA	REINSURANCE GROUP OF AMERICA	50%
RGEN	REPLIGEN CORP	50%
RGLD	ROYAL GOLD INC	50%
RGNX	REGENXBIO INC	40%
RGP	RESOURCES CONNEC	30%
RGR	STURM RUGER & CO INC	40%
RGS	REGIS CORP	30%
RHI	ROBERT HALF INTL	50%
RHP	RYMAN HOSPITALITY PROPERTIES	40%
RICK	RCI HOSPITALITY	30%
RILY	B. RILEY FINANCIAL INC	30%
RIO	RIO TINTO PLC	50%
RJF	RAYMOND JAMES FINANCIAL INC	50%
RL	RALPH LAUREN COR	50%
RLGY	REALOGY HOLDINGS CORP	30%
RLI	RLI CORP	50%
RLJ	RLJ LODGING TRUST	40%
RM	REGIONAL MANAGEMENT CORP	30%
RMAX	RE/MAX HOLDINGS INC-CL A	30%
RMBS	RAMBUS INC	40%
RMD	RESMED INC	50%
RMR	RMR GROUP INC/THE - A	30%
RNG	RINGCENTRAL INC-CLASS A	50%
RNR	RENAISSANCERE HOLDINGS LTD	50%
RNST	RENASANT CORP	40%
ROCK	GIBRALTAR INDUSTRIES INC	40%
ROG	ROGERS CORP	50%
ROIC	RETAIL OPPORTUNITY INVESTMEN	40%
ROK	ROCKWELL AUTOMATION INC	50%
ROL	ROLLINS INC	50%
ROLL	RBC BEARINGS INC	50%
ROP	ROPER TECHNOLOGIES INC	50%
ROST	ROSS STORES INC	50%
RP	REALPAGE INC	50%
RPAI	RETAIL PROPERTIES OF AME - A	40%
RPD	RAPID7 INC	50%
RPG	INVESCO S&P 500 PURE GROWTH ETF	50%
RPM	RPM INTL INC	50%
RPT	RPT REALTY	30%
RRC	RANGE RESOURCES	50%
RRR	RED ROCK RESOR-A	40%
RS	RELIANCE STEEL	50%
RSG	REPUBLIC SERVICES INC	50%
RST	ROSETTA STONE INC	30%
RTRX	RETROPHIN INC	30%
RUBI	RUBICON PROJECT	30%
RUN	SUNRUN INC	50%
RUSHA	RUSH ENTER-CL A	40%
RUSHB	RUSH ENTERPRISES INC	40%
RUTH	RUTH'S HOSPITALI	30%
RVNC	REVANCE THERAPEU	40%
RVSB	RIVERVIEW BANCORP INC	30%
RVT	ROYCE VALUE TRUST INC	50%
RWT	REDWOOD TRUST INC	30%
RXN	REXNORD CORP	50%
RYAAY	RYANAIR HOLDINGS PLC	50%
RYI	RYERSON HOLDING	30%
RYN	RAYONIER INC	50%



SABR	SABRE CORP	50%
SAFE	SAFEHOLD INC	50%
SAFM	SANDERSON FARMS	50%
SAFT	SAFETY INSURANCE GROUP INC	40%
SAGE	SAGE THERAPEUTIC	50%
SAH	SONIC AUTOMOTI-A	40%
SAIA	SAIA INC	50%
SAIC	SCIENCE APPLICATIONS INTE	50%
SAIL	SAILPOINT TECHNOLOGIES HOLDI	50%
SAM	BOSTON BEER-A	50%
SAMG	SILVERCREST ASSET MANAGEME-A	30%
SAND	SANDSTORM GOLD LTD	40%
SANM	SANMINA CORP	40%
SAP	SAP SE	50%
SASR	SANDY SPRING BANCORP INC	40%
SATS	EHOSTAR CORP-A	50%
SBAC	SBA COMMUNICATIONS CORP	50%
SBCF	SEACOAST BANKING CORP/FL	40%
SBH	SALLY BEAUTY HOL	40%
SBNY	SIGNATURE BANK	50%
SBRA	SABRA HEALTH CARE REIT INC	50%
SBS	CIA DE SANEAMENTO BASICO DO ESTADO DE SAO PAULO	50%
SBSI	SOUTHSIDE BANCSHARES INC	30%
SBUX	STARBUCKS CORP	50%
SCCO	SOUTHERN COPPER	50%
SCHL	SCHOLASTIC CORP	40%
SCHN	SCHNITZER STEEL	30%
SCHO	SCHWAB SHORT-TERM U.S. TREASURY ETF	50%
SCHP	SCHWAB US TIPS ETF	50%
SCHW	SCHWAB (CHARLES) CORP	50%
SCI	SERVICE CORP INT	50%
SCL	STEPAN CO	50%
SCS	STEELCASE INC-A	40%
SCSC	SCANSOURCE INC	30%
SCZ	ISHARES MSCI EAFE SMALL-CAP ETF	50%
SE	SEA LTD-ADR	50%
SEAS	SEAWORLD ENTERTA	40%
SEDG	SOLAREDGE TECHNO	50%
SEE	SEALED AIR CORP	50%
SEIC	SEI INVESTMENTS COMPANY	50%
SEM	SELECT MEDICAL	40%
SERV	SERVICEMASTER GL	50%
SF	STIFEL FINANCIAL CORP	50%
SFBS	SERVISFIRST BANCSHARES INC	40%
SFE	SAFEGUARD SCIENTIFICS INC	30%
SFL	SFL CORP LTD	40%
SFM	SPROUTS FARMERS	50%
SFNC	SIMMONS FIRST NATL CORP-CL A	40%
SFST	SOUTHERN FIRST BANCSHARES	30%
SGA	SAGA COMM-CL A	30%
SGC	SUPERIOR GROUP O	30%
SGEN	SEATTLE GENETICS	50%
SGH	SMART GLOBAL HOLDINGS INC	30%
SGMO	SANGAMO THERAPEU	40%
SGMS	SCIENTIFIC GAMES	40%
SGRY	SURGERY PARTNERS	30%
SH	PROSHARES SHORT S&P500	50%
SHBI	SHORE BANCSHARES INC	30%

SHEN	SHENANDOAH TELEC	50%
SHLX	SHELL MIDSTREAM	50%
SHO	SUNSTONE HOTEL INVESTORS INC	40%
SHOO	STEVEN MADDEN	40%
SHOP	SHOPIFY INC	50%
SHV	ISHARES SHORT TREASURY BOND ETF	50%
SHW	SHERWIN-WILLIAMS	50%
SHY	ISHARES 1-3 YEAR TREASURY BOND ETF	50%
SHYG	ISHARES 0-5 YEAR HIGH YIELD CORPORATE BOND ETF	50%
SIG	SIGNET JEWELERS	30%
SIGA	SIGA TECH INC	30%
SIGI	SELECTIVE INSURANCE GROUP	50%
SIMO	SILICON MOTION TECHNOL-ADR	40%
SINA	SINA CORP	50%
SIRI	SIRIUS XM HOLDIN	50%
SITE	SITEONE LANDSCAPE SUPPLY INC	50%
SIVB	SVB FINANCIAL GROUP	50%
SIX	SIX FLAGS ENTERT	40%
SJI	SOUTH JERSEY INDUSTRIES	50%
SJM	JM SMUCKER CO	50%
SJNK	SPDR BLOOMBERG BARCLAYS SHORT TERM HIGH YIELD BOND ETF	50%
SJW	SJW GROUP	40%
SKM	SK TELECOM CO LTD	50%
SKX	SKECHERS USA-A	50%
SKY	SKYLINE CHAMPION	40%
SKYW	SKYWEST INC	40%
SLAB	SILICON LABORATORIES INC	50%
SLB	SCHLUMBERGER LTD	50%
SLCT	SELECT BANCORP INC	30%
SLF	SUN LIFE FINANCIAL INC	50%
SLG	SL GREEN REALTY CORP	50%
SLGN	SILGAN HOLDINGS	50%
SLM	SLM CORP	50%
SLP	SIMULATIONS PLUS INC	30%
SLRC	SOLAR CAPITAL LTD	30%
SLV	ISHARES SILVER TRUST	50%
SMBK	SMARTFINANCIAL INC	30%
SMCI	SUPER MICRO COMPUTER INC	40%
SMFG	SUMITOMO MITSUI FINANCIAL GROUP INC	50%
SMG	SCOTTS MIRACLE	50%
SMMF	SUMMIT FINANCIAL GROUP INC	30%
SMP	STANDARD MOTOR	30%
SMPL	SIMPLY GOOD FOOD	40%
SMTC	SEMTECH CORP	50%
SNA	SNAP-ON INC	50%
SNAP	SNAP INC - A	50%
SNBR	SLEEP NUMBER COR	40%
SNDR	SCHNEIDER NATIONAL INC-CL B	50%
SNDX	SYNDAX PHARMACEU	30%
SNE	SONY CORP	50%
SNN	SMITH & NEPHEW PLC	50%
SNPS	SYNOPSIS INC	50%
SNV	SYNOVUS FINANCIAL CORP	50%
SNX	SYNNEX CORP	50%
SNY	SANOFI	50%
SO	SOUTHERN CO/THE	50%
SOHU	SOHU.COM LTD-ADR	30%
SOI	SOLARIS OIL IN-A	30%

SON	SONOCO PRODUCTS	50%
SONA	SOUTHERN NATL BANCORP OF VA	30%
SP	SP PLUS CORP	30%
SPB	SPECTRUM BRANDS	40%
SPG	SIMON PROPERTY GROUP INC	50%
SPGI	S&P GLOBAL INC	50%
SPLK	SPLUNK INC	50%
SPLV	INVESCO S&P 500 LOW VOLATILITY ETF	50%
SPNE	SEASPINE HOLD	30%
SPOK	SPOK HOLDINGS IN	30%
SPOT	SPOTIFY TECHNOLO	50%
SPR	SPIRIT AEROSYSTEMS HOLD-CL A	50%
SPRO	SPERO THERAPEUTI	30%
SPSB	SPDR PORTFOLIO SHORT TERM CORPORATE BOND ETF	50%
SPSC	SPS COMMERCE INC	50%
SPTN	SPARTANNASH CO	30%
SPWH	SPORTSMAN'S WARE	30%
SPWR	SUNPOWER CORP	40%
SPXC	SPX CORP	40%
SQ	SQUARE INC - A	50%
SQM	SOCIEDAD QUIMICA Y MINERA DE CHILE SA	50%
SQQQ	PROSHARES ULTRAPRO SHORT QQQ	50%
SR	SPIRE INC	50%
SRC	SPIRIT REALTY CAPITAL INC	50%
SRCE	1ST SOURCE CORP	30%
SRCL	STERICYCLE INC	50%
SRDX	SURMODICS INC	30%
SRE	SEMPRA ENERGY	50%
SRI	STONERIDGE INC	30%
SRPT	SAREPTA THERAPEU	50%
SSB	SOUTH STATE CORP	50%
SSD	SIMPSON MFG	50%
SSNC	SS&C TECHNOLOGIES HOLDINGS	50%
SSP	EW SCRIPPS-A	30%
SSRM	SSR MINING INC	50%
SSTK	SHUTTERSTOCK INC	40%
ST	SENSATA TECHNOLOGIES HOLDING	50%
STAA	STAAR SURGICAL	50%
STAG	STAG INDUSTRIAL INC	50%
STAR	ISTAR INC	30%
STAY	EXTENDED STAY AM	50%
STBA	S & T BANCORP INC	30%
STC	STEWART INFORMATION SERVICES	30%
STE	STERIS PLC	50%
STFC	STATE AUTO FINANCIAL CORP	30%
STL	STERLING BANCORP/DE	50%
STLD	STEEL DYNAMICS	50%
STMP	STAMPS.COM INC	50%
STNG	SCORPIO TANKERS INC	30%
STOR	STORE CAPITAL CORP	50%
STRA	STRATEGIC EDUCAT	50%
STRL	STERLING CONSTRUCTION CO	30%
STRS	STRATUS PROPERTIES INC	30%
STRT	STRATTEC SECURITY CORP	30%
STT	STATE STREET CORP	50%
STWD	STARWOOD PROPERTY TRUST INC	50%
STZ	CONSTELLATION-A	50%
SU	SUNCOR ENERGY INC	50%

SUI	SUN COMMUNITIES INC	50%
SUM	SUMMIT MATERIA-A	40%
SUPN	SUPERNUS PHARMAC	40%
SWCH	SWITCH INC- A	50%
SWI	SOLARWINDS CORP	50%
SWK	STANLEY BLACK &	50%
SWKS	SKYWORKS SOLUTIONS INC	50%
SWM	SCHWEITZER-MAUDU	30%
SWX	SOUTHWEST GAS HOLDINGS INC	50%
SXI	STANDEX INTERNATIONAL CORP	30%
SXT	SENSIENT TECHNOL	50%
SYBT	STOCK YARDS BANCORP INC	30%
SYF	SYNCHRONY FINANCIAL	50%
SYK	STRYKER CORP	50%
SYKE	SYKES ENTERPRISES INC	40%
SYNA	SYNAPTICS INC	50%
SYNH	SYNEOS HEALTH IN	50%
SYRS	SYROS PHARMACEUT	30%
SYX	SYSTEMAX INC	30%
SYZ	SYSCO CORP	50%
T	AT&T INC	50%
TA	TRAVELCENTERS OF	30%
TACO	DEL TACO RESTAUR	30%
TAL	TAL EDUCATIO-ADR	50%
TAP	MOLSON COORS-B	50%
TARO	TARO PHARM INDUS	50%
TBBK	BANCORP INC/THE	30%
TBI	TRUEBLUE INC	30%
TBK	TRIUMPH BANCORP INC	30%
TBNK	TERRITORIAL BANCORP INC	30%
TCBI	TEXAS CAPITAL BANCSHARES INC	40%
TCBK	TRICO BANCSHARES	30%
TCF	TCF FINANCIAL CORP	50%
TCMD	TACTILE SYSTEMS	30%
TCO	TAUBMAN CENTERS INC	50%
TCPC	BLACKROCK TCP CAPITAL CORP	30%
TDC	TERADATA CORP	50%
TDG	TRANSDIGM GROUP INC	50%
TDOC	TELADOC HEALTH I	50%
TDS	TELEPHONE & DATA	50%
TDW	TIDEWATER INC	30%
TDY	TELEDYNE TECHNOLOGIES INC	50%
TEAM	ATLISSIAN CORP PLC-CLASS A	50%
TECH	BIO-TECHNE CORP	50%
TECK	TECK RESOURCES LTD	50%
TEL	TE CONNECTIVITY LTD	50%
TEN	TENNECO INC-A	30%
TER	TERADYNE INC	50%
TERP	TERRAFORM POWER INC - A	50%
TEVA	TEVA PHARMACEUTICAL INDUSTRIES LTD	50%
TEX	TEREX CORP	40%
TFSL	TFS FINANCIAL CORP	50%
TFX	TELEFLEX INC	50%
TG	TREDEGAR CORP	30%
TGH	TEXTAINER GROUP HOLDINGS LTD	30%
TGI	TRIUMPH GROUP INC	30%
TGNA	TEGNA INC	50%
TGT	TARGET CORP	50%

TGTX	TG THERAPEUTICS	50%
THC	TENET HEALTHCARE	50%
THFF	FIRST FINANCIAL CORP/INDIANA	30%
THG	HANOVER INSURANCE GROUP INC/	50%
THO	THOR INDUSTRIES	50%
THR	THERMON GROUP HO	30%
THRM	GENTHERM INC	40%
THS	TREEHOUSE FOODS	50%
TIF	TIFFANY & CO	50%
TILE	INTERFACE INC	30%
TIPT	TIPTREE INC	30%
TISI	TEAM INC	30%
TITN	TITAN MACHINERY INC	30%
TJX	TJX COS INC	50%
TKR	TIMKEN CO	50%
TLK	TELEKOMUNIKASI INDONESIA PERSERO TBK PT	50%
TLT	ISHARES 20+ YEAR TREASURY BOND ETF	50%
TLYS	TILLY'S INC-CL A	30%
TMHC	TAYLOR MORRISON	50%
TMO	THERMO FISHER	50%
TMP	TOMPKINS FINANCIAL CORP	30%
TMUS	T-MOBILE US INC	50%
TNAV	TELENAV INC	30%
TNC	TENNANT CO	40%
TNDM	TANDEM DIABETES	50%
TNET	TRINET GROUP INC	50%
TNK	TEEKAY TANKERS LTD-CLASS A	30%
TOL	TOLL BROTHERS	50%
TOWN	TOWNE BANK	40%
TPC	TUTOR PERINI CORP	30%
TPH	TRI POINTE GROUP	40%
TPIC	TPI COMPOSITES I	30%
TPR	TAPESTRY INC	50%
TPRE	THIRD POINT REINSURANCE LTD	30%
TPX	TEMPUR SEALY INT	50%
TR	TOOTSIE ROLL IND	50%
TRC	TEJON RANCH CO	30%
TREC	TRECORA RESOURCE	30%
TREX	TREX CO INC	50%
TRGP	TARGA RESOURCES	50%
TRIP	TRIPADVISOR INC	50%
TRMB	TRIMBLE INC	50%
TRMK	TRUSTMARK CORP	40%
TRN	TRINITY INDUSTRIES INC	50%
TRNO	TERRENO REALTY CORP	50%
TRNS	TRANSCAT INC	30%
TROW	T ROWE PRICE GROUP INC	50%
TROX	TRONOX HOLDING-A	40%
TRP	TC ENERGY CORP	50%
TRS	TRIMAS CORP	30%
TRST	TRUSTCO BANK CORP NY	30%
TRTN	TRITON INTERNATIONAL LTD/BER	50%
TRTX	TPG RE FINANCE TRUST INC	30%
TRV	TRAVELERS COS INC/THE	50%
TS	TENARIS SA	50%
TSBK	TIMBERLAND BANCORP INC	30%
TSC	TRISTATE CAPITAL HLDGS INC	30%
TSCO	TRACTOR SUPPLY	50%

TSE	TRINSEO SA	30%
TSM	TAIWAN SEMICONDUCTOR MANUFACTURING CO LTD	50%
TSN	TYSON FOODS-A	50%
TTC	TORO CO	50%
TTD	TRADE DESK INC-A	50%
TTEC	TTEC HOLDINGS INC	50%
TTEK	TETRA TECH INC	50%
TTGT	TECHTARGET	30%
TTM	TATA MOTORS LTD	50%
TTMI	TTM TECHNOLOGIES	40%
TTWO	TAKE-TWO INTERACTIVE SOFTWRE	50%
TV	GRUPO TELEVISIA SAB	50%
TVTY	TIVITY HEALTH IN	30%
TW	TRADEWEB MARKETS INC-CLASS A	50%
TWIN	TWIN DISC INC	30%
TWLO	TWILIO INC - A	50%
TWNK	HOSTESS BRANDS	40%
TWO	TWO HARBORS INVESTMENT CORP	40%
TWOU	2U INC	50%
TWTR	TWITTER INC	50%
TX	TERNIUM SA-ADR	50%
TXN	TEXAS INSTRUMENTS INC	50%
TXRH	TEXAS ROADHOUS	50%
TXT	TEXTRON INC	50%
TYL	TYLER TECHNOLOGIES INC	50%
TZOO	TRAVELZOO	30%
UA	UNDER ARMOUR INC	50%
UAA	UNDER ARMOUR-A	50%
UAL	UNITED AIRLINES	50%
UBA	URSTADT BIDDLE - CLASS A	30%
UBFO	UNITED SECURITY BANCSHARE/CA	30%
UBS	UBS GROUP AG	50%
UBSI	UNITED BANKSHARES INC	50%
UCBI	UNITED COMMUNITY BANKS/GA	40%
UCTT	ULTRA CLEAN HOLDINGS INC	30%
UDR	UDR INC	50%
UE	URBAN EDGE PROPERTIES	40%
UEIC	UNIVERSAL ELECTRONICS INC	30%
UFCS	UNITED FIRE GROUP INC	30%
UFI	UNIFI INC	30%
UFPI	UFP INDUSTRIES I	50%
UFS	DOMTAR CORP	40%
UGI	UGI CORP	50%
UHAL	AMERCO	50%
UHS	UNIVERSAL HLTH-B	50%
UHT	UNIVERSAL HEALTH RLTY INCOME	40%
UIHC	UNITED INSURANCE HOLDINGS CO	30%
UIS	UNISYS CORP	30%
ULH	UNIVERSAL LOGIST	30%
ULTA	ULTA BEAUTY INC	50%
UMBF	UMB FINANCIAL CORP	50%
UMH	UMH PROPERTIES INC	30%
UMPQ	UMPQUA HOLDINGS CORP	50%
UN	UNILEVER NV	50%
UNF	UNIFIRST CORP/MA	50%
UNFI	UNITED NATURAL	30%
UNH	UNITEDHEALTH GRP	50%
UNIT	UNITI GROUP INC	40%

UNM	UNUM GROUP	50%
UNP	UNION PACIFIC CORP	50%
UNTY	UNITY BANCORP INC	30%
UNVR	UNIVAR SOLUTIONS	50%
UPLD	UPLAND SOFTWARE INC	30%
UPS	UNITED PARCEL SERVICE-CL B	50%
URBN	URBAN OUTFITTER	40%
URGN	UROGEN PHARMA LT	30%
URI	UNITED RENTALS INC	50%
USAK	USA TRUCK INC	30%
USAP	UNIVERSAL STAINL	30%
USB	US BANCORP	50%
USCR	US CONCRETE INC	30%
USFD	US FOODS HOLDING	50%
USHY	ISHARES BROAD USD HIGH YIELD CORPORATE BOND ETF	50%
USM	US CELLULAR CORP	50%
USMV	ISHARES EDGE MSCI MIN VOL USA ETF	50%
USNA	USANA HEALTH SCI	40%
USPH	US PHYSICAL THER	30%
UTHR	UNITED THERAPEUT	50%
UTL	UNITIL CORP	30%
UVE	UNIVERSAL INSURANCE HOLDINGS	30%
UVSP	UNIVEST FINANCIAL CORP	30%
UVV	UNIVERSAL CORP	40%
V	VISA INC-CLASS A SHARES	50%
VAC	MARRIOTT VACATIO	50%
VALE	VALE SA	50%
VAR	VARIAN MEDICAL S	50%
VBTX	VERITEX HOLDINGS INC	30%
VC	VISTEON CORP	50%
VCEL	VERICEL CORP	30%
VCIT	VANGUARD INTERMEDIATE-TERM CORPORATE BOND ETF	50%
VCLT	VANGUARD LONG-TERM CORPORATE BOND ETF	50%
VCRA	VOCERA COMMUNICATIONS INC	30%
VCSH	VANGUARD SHORT-TERM CORPORATE BOND ETF	50%
VCYT	VERACYTE INC	40%
VEA	VANGUARD FTSE DEVELOPED MARKETS ETF	50%
VEC	VECTRUS INC	30%
VECO	VEECO INSTRUMENTS INC	30%
VEDL	VEDANTA LTD	50%
VEEV	VEEVA SYSTEMS INC-CLASS A	50%
VER	VEREIT INC	50%
VFC	VF CORP	50%
VG	VONAGE HOLDINGS	50%
VGK	VANGUARD FTSE EUROPE ETF	50%
VGR	VECTOR GROUP LTD	40%
VGSH	VANGUARD SHORT-TERM TREASURY ETF	50%
VIAV	VIAVI SOLUTIONS INC	50%
VICI	VICI PROPERTIES INC	50%
VICR	VICOR CORP	50%
VIPS	VIPSHOP HOLDINGS	50%
VIRT	VIRTU FINANCIAL INC-CLASS A	50%
VIV	TELEFONICA BRASIL SA	50%
VIVO	MERIDIAN BIOSCI	30%
VKTX	VIKING THERAPEUT	30%
VLGEA	VILLAGE SUPER -A	30%
VLO	VALERO ENERGY	50%
VLRS	CONTROLADORA VUELA CIA DE AVIACION SAB DE CV	50%

VLY	VALLEY NATIONAL BANCORP	50%
VMBS	VANGUARD MORTGAGE-BACKED SECURITIES ETF	50%
VMC	VULCAN MATERIALS	50%
VMI	VALMONT INDUSTRIES	50%
VMW	VMWARE INC-CLASS A	50%
VNDA	VANDA PHARMACEUT	30%
VNET	21VIANET-ADR	50%
VNO	VORNADO REALTY TRUST	50%
VNOM	VIPER ENERGY PAR	40%
VNQ	VANGUARD REAL ESTATE ETF	50%
VNQI	VANGUARD GLOBAL EX-U.S. REAL ESTATE ETF	50%
VOD	VODAFONE GROUP PLC	50%
VOO	VANGUARD S&P 500 ETF	50%
VOYA	VOYA FINANCIAL INC	50%
VPG	VISHAY PRECISION GROUP	30%
VREX	VAREX IMAGIN	30%
VRNS	VARONIS SYSTEMS INC	50%
VRNT	VERINT SYSTEMS INC	50%
VRS	VERSO CORP - A	30%
VRSK	VERISK ANALYTICS INC	50%
VRSN	VERISIGN INC	50%
VRTS	VIRTUS INVESTMENT PARTNERS	30%
VRTU	VIRTUSA CORP	30%
VRTV	VERITIV CORP	30%
VRTX	VERTEX PHARM	50%
VSAT	VIASAT INC	50%
VSEC	VSE CORP	30%
VSH	VISHAY INTERTECHNOLOGY INC	50%
VSLR	VIVINT SOLAR INC	40%
VST	VISTRA ENERGY CORP	50%
VSTO	VISTA OUTDOOR	30%
VTIP	VANGUARD SHORT-TERM INFLATION-PROTECTED SECURITIES ETF	50%
VTR	VENTAS INC	50%
VTV	VANGUARD VALUE ETF	50%
VUG	VANGUARD GROWTH ETF	50%
VVI	VIAD CORP	30%
VVV	VALVOLINE INC	50%
VWO	VANGUARD FTSE EMERGING MARKETS ETF	50%
VYGR	VOYAGER THERAPEU	30%
VZ	VERIZON COMMUNIC	50%
WAB	WABTEC CORP	50%
WABC	WESTAMERICA BANCORPORATION	40%
WAFD	WASHINGTON FEDERAL INC	40%
WAL	WESTERN ALLIANCE BANCORP	50%
WASH	WASHINGTON TRUST BANCORP	30%
WAT	WATERS CORP	50%
WBA	WALGREENS BOOTS	50%
WBS	WEBSTER FINANCIAL CORP	50%
WBT	WELBILT INC	30%
WCC	WESCO INTERNATIONAL INC	40%
WCN	WASTE CONNECTIONS INC	50%
WD	WALKER & DUNLOP INC	40%
WDAY	WORKDAY INC-CLASS A	50%
WDC	WESTERN DIGITAL CORP	50%
WDR	WADDELL & REED FINANCIAL-A	40%
WEC	WEC ENERGY GROUP INC	50%
WELL	WELLTOWER INC	50%
WEN	WENDY'S CO/THE	50%



WERN	WERNER ENTERPRISES INC	50%
WES	WESTERN MIDSTREA	50%
WEX	WEX INC	50%
WEYS	WEYCO GROUP	30%
WFC	WELLS FARGO & CO	50%
WGO	WINNEBAGO INDS	50%
WH	WYNDHAM HOTELS &	50%
WHD	CACTUS INC - A	40%
WHG	WESTWOOD HOLDINGS GROUP INC	30%
WHR	WHIRLPOOL CORP	50%
WIFI	BOINGO WIRELESS	30%
WING	WINGSTOP INC	50%
WIRE	ENCORE WIRE	30%
WIX	WIX.COM LTD	50%
WK	WORKIVA INC	50%
WLDN	WILLDAN GROUP IN	30%
WLFC	WILLIS LEASE FINANCE CORP	30%
WLK	WESTLAKE CHEMICA	50%
WLTW	WILLIS TOWERS WATSON PLC	50%
WM	WASTE MANAGEMENT INC	50%
WMB	WILLIAMS COS INC	50%
WMK	WEIS MARKETS INC	40%
WMS	ADVANCED DRAINAG	50%
WMT	WALMART INC	50%
WNC	WABASH NATIONAL CORP	30%
WNEB	WESTERN NEW ENGLAND BANCORP	30%
WNS	WNS HOLDINGS LTD-ADR	50%
WOR	WORTHINGTON INDS	40%
WOW	WIDEPENWEST INC	30%
WPC	WP CAREY INC	50%
WPM	WHEATON PRECIOUS METALS CORP	50%
WPX	WPX ENERGY	50%
WRB	WR BERKLEY CORP	50%
WRE	WASHINGTON REIT	40%
WRI	WEINGARTEN REALTY INVESTORS	50%
WRK	WESTROCK CO	50%
WSBC	WESBANCO INC	40%
WSBF	WATERSTONE FINANCIAL INC	30%
WSC	WILLSCOT CORP	40%
WSFS	WSFS FINANCIAL CORP	40%
WSM	WILLIAMS-SONOMA	50%
WSO	WATSCO INC	50%
WSR	WHITESTONE REIT	30%
WST	WEST PHARMACEUT	50%
WTBA	WEST BANCORPORATION	30%
WTFC	WINTRUST FINANCIAL CORP	50%
WTS	WATTS WATER TECHNOLOGIES-A	50%
WTTR	SELECT ENERGY -A	30%
WU	WESTERN UNION CO	50%
WUBA	58.COM-ADR	50%
WWD	WOODWARD INC	50%
WWE	WORLD WRESTLIN-A	50%
WWW	WOLVERINE WORLD	40%
WY	WEYERHAEUSER CO	50%
WYNN	WYNN RESORTS LTD	50%
XEC	CIMAREX ENERGY C	50%
XEL	XCEL ENERGY INC	50%
XENE	XENON PHARMACEUT	30%

XENT	INTERSECT ENT IN	30%
XHR	XENIA HOTELS & RESORTS INC	40%
XLB	MATERIALS SELECT SECTOR SPDR FUND	50%
XLE	ENERGY SELECT SECTOR SPDR FUND	50%
XLF	FINANCIAL SELECT SECTOR SPDR FUND	50%
XLK	TECHNOLOGY SELECT SECTOR SPDR FUND	50%
XLNX	XILINX INC	50%
XLP	CONSUMER STAPLES SELECT SECTOR SPDR FUND	50%
XLRE	REAL ESTATE SELECT SECTOR SPDR FUND	50%
XLRN	ACCELERON PHARMA	50%
XNCR	XENCOR INC	40%
XOM	EXXON MOBIL CORP	50%
XPER	XPERI HOLDING CORP	40%
XPO	XPO LOGISTICS INC	50%
XRAY	DENTSPLY SIRONA	50%
XRX	XEROX HOLDINGS CORP	50%
XYL	XYLEM INC	50%
Y	ALLEGHANY CORP	50%
YELP	YELP INC	40%
YEXT	YEXT INC	40%
YNDX	YANDEX NV-A	50%
YORW	YORK WATER CO	30%
YPF	YPF SA	50%
YUM	YUM! BRANDS INC	50%
YUMC	YUM CHINA HO	50%
YY	JOYY INC	50%
Z	ZILLOW GROUP INC	50%
ZBH	ZIMMER BIOMET HO	50%
ZBRA	ZEBRA TECHNOLOGIES CORP-CL A	50%
ZEN	ZENDESK INC	50%
ZEUS	OLYMPIC STEEL	30%
ZG	ZILLOW GROUP I-A	50%
ZGNX	ZOGENIX INC	40%
ZION	ZIONS BANCORP NA	50%
ZIXI	ZIX CORP	30%
ZLAB	ZAI LAB LTD	50%
ZNGA	ZYNGA INC - CL A	50%
ZS	ZSCALER INC	50%
ZTO	ZTO EXPRESS CAYMAN INC-ADR	50%
ZTS	ZOETIS INC	50%
ZUMZ	ZUMIEZ INC	30%
ZUO	ZUORA INC - CLASS A	40%

Total: 2407