

New York, November 07, 2019

MSCI US Equity Indexes

The following are changes in constituents for the MSCI US Equity Indexes which will take place as of the close of November 26, 2019.

SUMMARY OF THE CHANGES INCLUDED IN THIS ANNOUNCEMENT:

Index	Nb of Securities Added	Nb of Securities Deleted
MSCI US PRIME MARKET 750 INDEX	16	12
MSCI US SMALL CAP 1750 INDEX	73	35
MSCI US INVESTABLE MARKET 2500 INDEX	68	26
MSCI US MICRO CAP INDEX	20	33

MSCI US PRIME MARKET 750 INDEX

Additions

BLACKSTONE GROUP  
ZOOM VIDEO COMM A  
LYFT A  
INSULET CORP  
MEDICAL PROPERTIES TRUST  
APOLLO GLOBAL MGMT A  
STORE CAPITAL  
BRIGHT HORIZONS FAMILY  
POOL CORP  
OLD REPUBLIC INTL CORP  
COLUMBIA SPORTSWEAR CO  
PROOFPOINT  
BEYOND MEAT  
PRA HEALTH SCIENCES  
TRADEWEB MARKETS A  
ANAPLAN

Deletions

STERICYCLE  
ACUITY BRANDS  
HIGHWOODS PROPERTIES  
STERLING BANCORP (NEW)  
MACQUARIE INFRA CORP  
ANGI HOMESERVICES A  
LOGMEIN  
MURPHY OIL CORP  
NEKTAR THERAPEUTICS  
ALKERMES  
FLUOR CORP  
CHEMOURS CO

MSCI US SMALL CAP 1750 INDEX

Additions

STERICYCLE  
ACUITY BRANDS  
HIGHWOODS PROPERTIES  
STERLING BANCORP (NEW)  
MACQUARIE INFRA CORP  
ANGI HOMESERVICES A  
LOGMEIN  
PARSONS CORP  
MURPHY OIL CORP  
NEKTAR THERAPEUTICS  
GROCERY OUTLET HOLDING  
ALKERMES  
FLUOR CORP  
OPTION CARE HEALTH  
CHEMOURS CO  
PAGERDUTY  
REALREAL (THE)  
VIPER ENERGY PARTNERS A  
CHANGE HEALTHCARE  
REVOLVE GROUP A  
SAFETY INCOME & GROWTH  
TURNING POINT  
VERACYTE  
DICERNA PHARMACEUTICALS  
ARQULE  
CLEAR CHANNEL OUTDOOR  
BOOT BARN HOLDINGS  
SILK ROAD MEDICAL  
FOCUS FINANCIAL PRTRNS A  
PALOMAR HOLDINGS  
STOKE THERAPEUTICS  
KODIAK SCIENCES

Deletions

INSULET CORP  
MEDICAL PROPERTIES TRUST  
STORE CAPITAL  
BRIGHT HORIZONS FAMILY  
POOL CORP  
OLD REPUBLIC INTL CORP  
COLUMBIA SPORTSWEAR CO  
PROOFPOINT  
PRA HEALTH SCIENCES  
MANNKIND CORP  
HAMILTON BEACH BRANDS A  
PICO HOLDINGS  
TILE SHOP HLDGS  
ROCKWELL MEDICAL  
YRC WORLDWIDE  
PARETEUM CORP  
NOVAVAX  
ABEONA THERAPEUTICS  
FRONTIER COMMUNICATIONS  
NCS MULTISTAGE HOLDINGS  
ASCENA RETAIL GROUP  
TRANSENTERIX  
SILVERBOW RESOURCES  
MAMMOTH ENERGY SERVICES  
ADURO BIOTECH  
ASSERTIO THERAPEUTICS  
KEZAR LIFE SCIENCES  
WAITR HOLDINGS  
LSC COMMUNICATIONS  
CERENCE  
ORGANOGENESIS A  
PQ GROUP HOLDINGS

VERICEL CORP  
ROCKET PHARMACEUTICALS  
RATTLER MIDSTREAM  
QUINSTREET  
TECHTARGET  
ELLINGTON FINANCIAL  
DIAMOND S SHIPPING  
NEXTCURE  
TARGET HOSPITALITY CORP  
AKERO THERAPEUTICS  
DIGITAL TURBINE  
BANK FIRST CORPORATION  
EVERQUOTE A  
MAXAR TECHNOLOGIES(US)  
PRIMO WATER CORP  
CHEMOCENTRYX  
STEMLINE THERAPEUTICS  
TURNING POINT BRANDS  
VISHAY PRECISION GROUP  
BRIGHAM MINERALS A  
GLOBAL MEDICAL REIT  
INTELLIGENT SYSTEMS  
MORPHIC HOLDING  
AVEDRO  
LEGACY HOUSING  
KADMON HOLDINGS  
VERRICA PHARMACEUTICALS  
TRANSMEDICS GROUP  
PERSONALIS  
NEW FORTRESS ENERGY A  
KARUNA THERAPEUTICS  
PREVAIL THERAPEUTICS  
HOME BANCORP  
OPPENHEIMER HOLDINGS A  
PCSB FINANCIAL  
TITAN MACHINERY  
BRIDGEWATER BANCSHARES  
SOLARIS OILFIELD INFRA A  
ALLIED MOTION TECH  
EAGLE BULK SHIPPING  
MEDICINOVA

RESOLUTE FOREST PRODUCTS  
TFS FINANCIAL  
UTD STATES LIME & MRLS

MSCI US INVESTABLE MARKET 2500 INDEX

Additions

BLACKSTONE GROUP  
ZOOM VIDEO COMM A  
LYFT A  
APOLLO GLOBAL MGMT A  
BEYOND MEAT  
TRADEWEB MARKETS A  
ANAPLAN  
PARSONS CORP  
GROCERY OUTLET HOLDING  
OPTION CARE HEALTH  
PAGERDUTY  
REALREAL (THE)  
VIPER ENERGY PARTNERS A  
CHANGE HEALTHCARE  
REVOLVE GROUP A  
SAFETY INCOME & GROWTH  
TURNING POINT  
VERACYTE  
DICERNA PHARMACEUTICALS  
ARQULE  
CLEAR CHANNEL OUTDOOR  
BOOT BARN HOLDINGS  
SILK ROAD MEDICAL  
FOCUS FINANCIAL PRTNRS A  
PALOMAR HOLDINGS  
STOKE THERAPEUTICS  
KODIAK SCIENCES  
VERICEL CORP  
ROCKET PHARMACEUTICALS  
RATTLER MIDSTREAM

Deletions

MANNKIND CORP  
HAMILTON BEACH BRANDS A  
PICO HOLDINGS  
TILE SHOP HLDGS  
ROCKWELL MEDICAL  
YRC WORLDWIDE  
PARETEUM CORP  
NOVAVAX  
ABEONA THERAPEUTICS  
FRONTIER COMMUNICATIONS  
NCS MULTISTAGE HOLDINGS  
ASCENA RETAIL GROUP  
TRANSENERIX  
SILVERBOW RESOURCES  
MAMMOTH ENERGY SERVICES  
ADURO BIOTECH  
ASSERTIO THERAPEUTICS  
KEZAR LIFE SCIENCES  
WAITR HOLDINGS  
LSC COMMUNICATIONS  
CERENCE  
ORGANOGENESIS A  
PQ GROUP HOLDINGS  
RESOLUTE FOREST PRODUCTS  
TFS FINANCIAL  
UTD STATES LIME & MRLS

QUINSTREET  
TECHTARGET  
ELLINGTON FINANCIAL  
DIAMOND S SHIPPING  
NEXTCURE  
TARGET HOSPITALITY CORP  
AKERO THERAPEUTICS  
DIGITAL TURBINE  
BANK FIRST CORPORATION  
EVERQUOTE A  
MAXAR TECHNOLOGIES(US)  
PRIMO WATER CORP  
CHEMOCENTRYX  
STEMLINE THERAPEUTICS  
TURNING POINT BRANDS  
VISHAY PRECISION GROUP  
BRIGHAM MINERALS A  
GLOBAL MEDICAL REIT  
INTELLIGENT SYSTEMS  
MORPHIC HOLDING  
AVEDRO  
LEGACY HOUSING  
KADMON HOLDINGS  
VERRICA PHARMACEUTICALS  
TRANSMEDICS GROUP  
PERSONALIS  
NEW FORTRESS ENERGY A  
KARUNA THERAPEUTICS  
PREVAIL THERAPEUTICS  
HOME BANCORP  
OPPENHEIMER HOLDINGS A  
PCSB FINANCIAL  
TITAN MACHINERY  
BRIDGEWATER BANCSHARES  
SOLARIS OILFIELD INFRA A  
ALLIED MOTION TECH  
EAGLE BULK SHIPPING  
MEDICINOVA

MSCI US MICRO CAP INDEX

Additions

MANNKIND CORP  
HAMILTON BEACH BRANDS A  
PICO HOLDINGS  
TILE SHOP HLDGS  
ROCKWELL MEDICAL  
YRC WORLDWIDE  
PARETEUM CORP  
NOVAVAX  
ABEONA THERAPEUTICS  
FRONTIER COMMUNICATIONS  
NCS MULTISTAGE HOLDINGS  
ASCENA RETAIL GROUP  
TRANSENTERIX  
SILVERBOW RESOURCES  
MAMMOTH ENERGY SERVICES  
ADURO BIOTECH  
ASSERTIO THERAPEUTICS  
KEZAR LIFE SCIENCES  
WAITR HOLDINGS  
LSC COMMUNICATIONS

Deletions

OPTION CARE HEALTH  
SAFETY INCOME & GROWTH  
VERACYTE  
DICERNA PHARMACEUTICALS  
ARQULE  
BOOT BARN HOLDINGS  
VERICEL CORP  
ROCKET PHARMACEUTICALS  
QUINSTREET  
TECHTARGET  
PRIMO WATER CORP  
CHEMOCENTRYX  
STEMLINE THERAPEUTICS  
TURNING POINT BRANDS  
VISHAY PRECISION GROUP  
HOME BANCORP  
OPPENHEIMER HOLDINGS A  
PCSB FINANCIAL  
TITAN MACHINERY  
SOLARIS OILFIELD INFRA A  
ALLIED MOTION TECH  
EAGLE BULK SHIPPING  
MEDICINOVA  
DIGIRAD CORP  
ADVAXIS  
YIELD10 BIOSCIENCE  
WESTWATER RESOURCES  
TRANS WORLD ENTMT CORP  
DESTINATION MATERNITY  
BARNWELL INDUSTRIES  
CLEVELAND BIOLABS  
GREENPRO CAPITAL  
NEONODE



## Notice and Disclaimer

- This document and all of the information contained in it, including without limitation all text, data, graphs, charts (collectively, the “Information”) is the property of MSCI Inc. or its subsidiaries (collectively, “MSCI”), or MSCI’s licensors, direct or indirect suppliers or any third party involved in making or compiling any Information (collectively, with MSCI, the “Information Providers”) and is provided for informational purposes only. The Information may not be modified, reverse-engineered, reproduced or disseminated in whole or in part without prior written permission from MSCI.
- The Information may not be used to create derivative works or to verify or correct other data or information. For example (but without limitation), the Information may not be used to create indexes, databases, risk models, analytics, software, or in connection with the issuing, offering, sponsoring, managing or marketing of any securities, portfolios, financial products or other investment vehicles utilizing or based on, linked to, tracking or otherwise derived from the Information or any other MSCI data, information, products or services.
- The user of the Information assumes the entire risk of any use it may make or permit to be made of the Information. NONE OF THE INFORMATION PROVIDERS MAKES ANY EXPRESS OR IMPLIED WARRANTIES OR REPRESENTATIONS WITH RESPECT TO THE INFORMATION (OR THE RESULTS TO BE OBTAINED BY THE USE THEREOF), AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, EACH INFORMATION PROVIDER EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES (INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF ORIGINALITY, ACCURACY, TIMELINESS, NON-INFRINGEMENT, COMPLETENESS, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) WITH RESPECT TO ANY OF THE INFORMATION.
- Without limiting any of the foregoing and to the maximum extent permitted by applicable law, in no event shall any Information Provider have any liability regarding any of the Information for any direct, indirect, special, punitive, consequential (including lost profits) or any other damages even if notified of the possibility of such damages. The foregoing shall not exclude or limit any liability that may not by applicable law be excluded or limited, including without limitation (as applicable), any liability for death or personal injury to the extent that such injury results from the negligence or willful default of itself, its servants, agents or sub-contractors.
- Information containing any historical information, data or analysis should not be taken as an indication or guarantee of any future performance, analysis, forecast or prediction. Past performance does not guarantee future results.
- The Information should not be relied on and is not a substitute for the skill, judgment and experience of the user, its management, employees, advisors and/or clients when making investment and other business decisions. All Information is impersonal and not tailored to the needs of any person, entity or group of persons.
- None of the Information constitutes an offer to sell (or a solicitation of an offer to buy), any security, financial product or other investment vehicle or any trading strategy.
- It is not possible to invest directly in an index. Exposure to an asset class or trading strategy or other category represented by an index is only available through third party investable instruments (if any) based on that index. MSCI does not issue, sponsor, endorse, market, offer, review or otherwise express any opinion regarding any fund, ETF, derivative or other security, investment, financial product or trading strategy that is based on, linked to or seeks to provide an investment return related to the performance of any MSCI index (collectively, “Index Linked Investments”). MSCI makes no assurance that any Index Linked Investments will accurately track index performance or provide positive investment returns. MSCI Inc. is not an investment adviser or fiduciary and MSCI makes no representation regarding the advisability of investing in any Index Linked Investments.
- Index returns do not represent the results of actual trading of investable assets/securities. MSCI maintains and calculates indexes, but does not manage actual assets. Index returns do not reflect payment of any sales charges or fees an investor may pay to purchase the securities underlying the index or Index Linked Investments. The imposition of these fees and charges would cause the performance of an Index Linked Investment to be different than the MSCI index performance.
- The Information may contain back tested data. Back-tested performance is not actual performance, but is hypothetical. There are frequently material differences between back tested performance results and actual results subsequently achieved by any investment strategy.
- Constituents of MSCI equity indexes are listed companies, which are included in or excluded from the indexes according to the application of the relevant index methodologies. Accordingly, constituents in MSCI equity indexes may include MSCI Inc., clients of MSCI or suppliers to MSCI. Inclusion of a security within an MSCI index is not a recommendation by MSCI to buy, sell, or hold such security, nor is it considered to be investment advice.
- Data and information produced by various affiliates of MSCI Inc., including MSCI ESG Research Inc. and Barra LLC, may be used in calculating certain MSCI indexes. More information can be found in the relevant index methodologies on [www.msci.com](http://www.msci.com).
- MSCI receives compensation in connection with licensing its indexes to third parties. MSCI Inc.’s revenue includes fees based on assets in Index Linked Investments. Information can be found in MSCI Inc.’s company filings on the Investor Relations section of [www.msci.com](http://www.msci.com).
- MSCI ESG Research Inc. is a Registered Investment Adviser under the Investment Advisers Act of 1940 and a subsidiary of MSCI Inc. Except with respect to any applicable products or services from MSCI ESG Research, neither MSCI nor any of its products or services recommends, endorses, approves or otherwise expresses any opinion regarding any issuer, securities, financial products or instruments or trading strategies and MSCI’s products or services are not intended to constitute investment advice or a recommendation to make (or refrain from making) any kind of investment decision and may not be relied on as such. Issuers mentioned or included in any MSCI ESG Research materials may include MSCI Inc., clients of MSCI or suppliers to MSCI, and may also purchase research or other products or services from MSCI ESG Research. MSCI ESG Research materials, including materials utilized in any MSCI ESG Indexes or other products, have not been submitted to, nor received approval from, the United States Securities and Exchange Commission or any other regulatory body.
- Any use of or access to products, services or information of MSCI requires a license from MSCI. MSCI, Barra, RiskMetrics, IPD, FEA, InvestorForce, and other MSCI brands and product names are the trademarks, service marks, or registered trademarks of MSCI or its subsidiaries in the United States and other jurisdictions. The Global Industry Classification Standard (GICS) was developed by and is the exclusive property of MSCI and Standard & Poor’s. “Global Industry Classification Standard (GICS)” is a service mark of MSCI and Standard & Poor’s.

© 2019 MSCI. All rights reserved.

### About MSCI

For more than four decades, MSCI (NYSE: MSCI) has helped global investors build and manage better portfolios. Our research-based tools and services provide our clients with deeper insights into drivers of risk and performance, broad asset class coverage and innovative ways to bring investment strategies to market. Our offerings include indexes, data, analytical models, regulatory reporting and ESG research. MSCI’s clients include 95 of the world’s 100 largest money managers, as ranked by P&I. For more information, visit us at [www.msci.com](http://www.msci.com).