

Geneva, May 11, 2023

MSCI GLOBAL MICRO CAP INDEXES

The following are changes in constituents for the MSCI Global Micro Cap Indexes which will take place as of the close of May 31, 2023.

SUMMARY PER COUNTRY:

Country	Nb of Securities Added	Nb of Securities Deleted
AUSTRALIA	17	9
BELGIUM	0	1
SWITZERLAND	2	5
DENMARK	1	1
SPAIN	4	0
FRANCE	4	9
GERMANY	3	6
NETHERLANDS	1	1
ITALY	4	7
JAPAN	24	12
HONG KONG	6	6
NORWAY	8	6
USA	104	43
CANADA	11	7
SWEDEN	6	4
UNITED KINGDOM	8	9
FINLAND	4	2
NEW ZEALAND	0	1
PORTUGAL	0	1
IRELAND	0	1
ISRAEL	10	5
SINGAPORE	4	6

MSCI AUSTRALIA INDEX

Additions

AUSTRALIAN ETHICAL INV
AZURE MINERALS
BLACK CAT SYNDICATE
BREAKER RESOURCES
CAMPLIFY HOLDINGS
GREENX METALS
GROUP 6 METALS
JERVOIS GLOBAL
KILAND
MAYNE PHARMA GROUP
METEORIC RESOURCES
MINDAX
NEOMETALS
POINTS BET HOLDINGS
QUALITAS
VHM
ZIP CO

Deletions

ADSL0T
ALLEGIANCE COAL
ALPHA HPA
AUSTRALIAN MINES
NORWEST ENERGY
OPTIMA TECHNOLOGY GROUP
QUICKFEE
RESOLUTE MINING
ZOONO GROUP

MSCI BELGIUM INDEX

Additions

None

Deletions

VAN DE VELDE

MSCI SWITZERLAND INDEX

Additions

BELLEVUE GROUP
SWISS STEEL HOLDING

Deletions

EVOLVA HOLDING
FUNDAMENTA REAL ESTATE
MEIER TOBLER GROUP
THURGAUER KANTONALBANK
VALARTIS GROUP INH

MSCI DENMARK INDEX

Additions
LUXOR B

Deletions
SP GROUP

MSCI SPAIN INDEX

Additions
ALANTRA PARTNERS
ARTECHE LANTEGI ELKARTEA
ENERGY SOLAR TECH
LLORENTE & CUENCA

Deletions
None

MSCI FRANCE INDEX

Additions
EXACOMPTA CLAIREFONTAINE
GASCOGNE
HYDROGENE DE FRANCE
ORPEA

Deletions
ABIVAX
ALCHIMIE
AMA
ATLAND
CAFOM
CS GROUP
ESI GROUP
GROUPE GUILLIN
VIEL ET COMPAGNIE

MSCI GERMANY INDEX

Additions
ERNST RUSS
GLOBAL FASHION GROUP
PYRUM INNOVATIONS (DE)

Deletions
KNAUS TABBERT
LEONI
NORTHERN DATA
SAF-HOLLAND
SUESS MICROTEC
SUNMIRROR

MSCI NETHERLANDS INDEX

Additions
CM COM

Deletions
ORDINA

MSCI ITALY INDEX

Additions
LABOMAR
POWERSOFT
REVO INSURANCE SPA
SEBINO

Deletions
BANCO DESIO BRIANZA
CALTAGIRONE
CENTRALE DEL LATTE DI TO
FRANCHI UMBERTO MARMI
ITALIAN SEA GROUP
MASI AGRICOLA
RATTI SPA

MSCI JAPAN INDEX

Additions
BRANDING ENGINEER
BUYSELL TECHNOLOGIES
CORE CONCEPT TECH
CREAL
ELEMENTS
FHT HOLDINGS CORP
GENOVA
GIXO
GUPPY'S
HIGASHI TWENTY ONE
INFORICH
JAPAN BUSINESS SYSTEMS
JAPAN DATA SCIENCE
JAPANIACE
KAIHAN
KANSEKI
MONOAI TECHNOLOGY
OPENWORK
SKYMARK AIRLINES
SMARTDRIVE
ST.COUSAIR

Deletions
ABALANCE
BASE CO
BENEFIT JAPAN
EARTH INFINITY CO
FP PARTNER
KOSAIDO HOLDINGS CO
METAPS
PIXELA CORP
SATO FOODS INDUSTRIES
SHIBAURA MECHATRONICS
STEMRIM
TOUMEI

STARTS PUBLISHING
TOKYO COMMUNICATIONS GRP
TONE

MSCI HONG KONG INDEX

Additions
AL GROUP
BEST LINKING GROUP
BOARDWARE INTELLIGENCE
CARRY WEALTH HLDGS (HK)
CHINA INDL SEC INTL FINL
SANERGY GROUP

Deletions
EMINENCE ENTERPRISE
RENCO HOLDINGS GRP (HK)
SHEUNG YUE GROUP HLDGS
SIS INTERNATIONAL HLDGS
THING ON ENTERPRISE
WAI CHUN GROUP HOLDINGS

MSCI NORWAY INDEX

Additions
ENDUR
GIGANTE SALMON
ICE FISH FARM
NORDIC AQUA PARTNERS
PETRONOR E&P(NO)
SMARTOPTICS GROUP
SPAREBANKEN SOR
VOLUE

Deletions
ARCTIC FISH HOLDING
AVANCE GAS HOLDING
BELSHIPS
FROY
KITRON
NORDIC NANOVECTOR

MSCI USA INDEX

Additions
ABSCI
ADICET BIO
ADVANTAGE SOLUTION A
AEVA TECHNOLOGIES
AIRSCULPT TECH
AKILI
ALLBIRDS A
ALTIMMUNE
ALX ONCOLOGY HLDGS
AMNEAL PHARMACEUTICALS
AN2 THERAPEUTICS
ARCHER AVIATION A
ATARA BIOTHERAPEUTICS
ATEA PHARMACEUTICALS
BENSON HILL
BIG LOTS
BIONANO GENOMICS
BIOTE A
BLEND LABS A
BRC A
BRIDGEWATER BANCSHARES
BRIGHT HEALTH GROUP
C4 THERAPEUTICS
CARA THERAPEUTICS
CAREMAX A
CARIBOU BIOSCIENCES
CARPARTS.COM
CASA SYSTEMS
CENNTRO ELECTRIC GRP(US)
CHARGE ENTERPRISES
CITY OFFICE REIT
CODEXIS
COMTECH TELECOM
CONTEXTLOGIC A
CUE HEALTH
DESIGN THERAPEUTICS
DOUGLAS ELLIMAN
EDGEWISE THERAPEUTICS
ENERGY VAULT HOLDINGS
ESPERION THERAPEUTICS
ESS TECH
EVERQUOTE A
FIRST OF LONG ISLAND
FORGE GLOBAL HLDGS
FUBOTV
FULCRUM THERAPEUTICS

Deletions
89BIO
ACELRX PHARMACEUTICALS
AGILE THERAPEUTICS
AGRIFY CORP
AILERON THERAPEUTICS
ALDEYRA THERAPEUTICS
APTINYX
ARIDIS PHARMACEUTICALS
ARS PHARMACEUTICALS
ASTRONICS CORP
BEAZER HOMES USA
BIGLARI HOLDINGS A
BIGLARI HOLDINGS B
BIOLASE INC
BIOMEA FUSION
CBDMD
CIPHER MINING
COMSOVEREIGN HOLDING
DATCHAT
EBET
ENLIVEN THERAPEUTICS
ENTRAVISION COMMU A
GARRETT MOTION
HARROW HEALTH
JAGUAR HEALTH
LAIRD SUPERFOOD
LANNETT CO
LEGACY HOUSING
MARKER THERAPEUTICS
MASTERCRAFT BOAT HLDGS
MOONLAKE IMMUNO
OLYMPIC STEEL
ONCORUS
PERFORMED LINE PRODUCTS
RXSIGHT
SOUNDHOUND AI A
SURGALIGN HOLDINGS
T2 BIOSYSTEMS
TERNS PHARMACEUTICALS
THIRD HARMONIC BIO
TREVENA
TYRA BIOSCIENCES
WW INTERNATIONAL

GI THERAPEUTICS
 GEVO
 GRAN TIERRA ENERGY
 GRANITE POINT MTG TRUST
 GRAPHITE BIO
 HAWAIIAN HOLDINGS
 HERON THERAPEUTICS
 HOLLEY
 HYLIION
 HYZON MOTORS A
 INOGEN
 INOVIO PHARMACEUTICALS
 INSTIL BIO
 INVITAE
 JASPER THERAPEUTICS
 KALTURA
 KEZAR LIFE SCIENCES
 KODIAK SCIENCES
 LATHAM GRP
 LENDINGTREE INC A
 LUXURBAN HOTELS INC
 MARIADB
 META MATERIALS
 NEKTAR THERAPEUTICS
 NEWTEKONE
 OCEAN BIOMEDICAL
 OCUPHIRE PHARMA
 ORGANOGENESIS A
 OUSTER
 PMV PHARMACEUTICALS
 POSEIDA THERAPEUTICS
 PRECIGEN
 PROTERRA
 PURPLE INNOVATION A
 PYXIS ONCOLOGY
 SANGAMO THERAPEUTICS
 SEER A
 SENSEONICS HOLDINGS INC
 SKYX PLATFORMS
 SPORTSMANS WAREHOUSE
 SURMODICS
 TELOS CORP
 TERRAN ORBITAL
 THORNE HEALTHTECH
 TREDEGAR CORP
 TROIKA MEDIA GRP
 TUCOWS
 TUTOR PERINI
 UNISYS CORP
 VAXXINITY A
 VERU
 VIEWRAY
 VIGIL NEUROSCIENCE
 VUZIX CORP
 WATERSTONE FINANCIAL
 WEWORK A
 WORKHOUSE GROUP
 ZEROFOX HLDGS

MSCI CANADA INDEX

Additions

AURORA CANNABIS
 COLUMBIA CARE
 CORUS ENTERTAINMENT B
 DATA COMMUNICATIONS MGMT
 DISCOVERY SILVER CORP
 EUPRAXIA PHARMA
 FARADAY COPPER
 HYPERCHARGE NETWORKS
 ORGANIGRAM HOLDINGS (CA)
 PROBE GOLD
 TITANIUM TRANSN GRP

Deletions

AKUMIN
 CUBICFARM SYSTEMS CORP
 HUT 8 MINING
 IMV
 MCI ONEHEALTH TECH A SV
 NORTH AMERICAN CONST GRP
 REUNION NEUROSCIENCE

MSCI SWEDEN INDEX

Additions

CINIS FERTILIZER
CINT GROUP
DUNI
HEBA FASTIGHETS B
LUMENRADIO
W5 SOLUTIONS

Deletions

ABSOLENT AIR CARE GROUP
ALLIGO B
ELANDERS
READLY INTERNATIONAL

MSCI UNITED KINGDOM INDEX

Additions

ALFA FINL SOFTW HLDGS
ARTISANAL SPIRITS
FOCUSRITE
HELICAL
KODAL MINERALS
PANTHEON RESOURCES
SOSANDAR
VIDENDUM

Deletions

AB DYNAMICS
AMIGO HOLDINGS
CHESNARA
HOLLYWOOD BOWL GROUP
INDUSTRIALS REIT (GB)
MIRRIAD ADVERTISING
NICHOLS
RA INTERNATIONAL GROUP
VERSARIEN

MSCI FINLAND INDEX

Additions

BOREO
ENENTO GROUP
KOSKISEN
PURMO GROUP C

Deletions

EVLI B
SCANFIL

MSCI NEW ZEALAND INDEX

Additions

None

Deletions

TOURISM HOLDINGS

MSCI PORTUGAL INDEX

Additions

None

Deletions

MOTA ENGIL SGPS

MSCI IRELAND INDEX

Additions

None

Deletions

FBD HOLDINGS

MSCI ISRAEL INDEX

Additions

AUDICODES
B COMMUNICATIONS
CARASSO REAL ESTATE
FREIGHTOS A
GILAT SATELLITE NETWORK
INROM CONSTRUCTION IND
ISRAEL LAND DEVELOPMENT
ISRAEL SHIPYARDS IND
KVUTZAT ACRO
MALAM TEAM

Deletions

AXILION SMART MOBILITY
EMILIA DEVELOPMENT OFG
HUMAN XTENSIONS
IM CANNABIS CORP
KARDAN ISRAEL

MSCI SINGAPORE INDEX

Additions

BRC ASIA
FORTRESS MINERALS
POLLUX PROPERTIES
PRIME US REIT

Deletions

CHALLENGER TECHNOLOGIES
HIAP HOE
MEMIONTEC HOLDINGS
PROPNEK
SAMUDERA SHIPPING LINE
SBS TRANSIT

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