

# Reconstitution

## Russell 3000® Index - Additions

Company	Symbol	Sector
1ST CONSTITUTION BANCORP	FCCY	Financial Services
22ND CENTURY GROUP INC	XXII	Consumer Staples
ACM RESEARCH	ACMR	Technology
ADESTO TECHNOLOGIES CORP	IOTS	Technology
ADMA BIOLOGICS INC	ADMA	Health Care
ADVERUM BIOTECH INC	ADVM	Health Care
AEGLEA BIOTHERAPEUTICS	AGLE	Health Care
ALBIREO PHARMA INC	ALBO	Health Care
ALDEYRA THERAPEUTICS INC	ALDX	Health Care
ALLIANCE ONE INTL INC	AOI	Consumer Staples
ALTA MESA RESOURCES (A)	AMR	Energy
ALTAIR ENGINEERING INC	ALTR	Technology
AMERICAN RLTY INVS INC	ARL	Financial Services
AMPIO PHARMACEUTICALS	AMPE	Health Care
AMYRIS INC	AMRS	Materials & Processing
APOLLO MEDICAL HOLDINGS	AMEH	Health Care
ARBOR REALTY TRUST INC	ABR	Financial Services
ARBUTUS BIOPHARMA CORP	ABUS	Health Care
ARCUS BIOSCIENCES	RCUS	Health Care
ARQLE INC	ARQL	Health Care
ARROWHEAD PHARMACEUTICAL	ARWR	Health Care
ASHFORD INC	AINC	Financial Services
ASURE SOFTWARE INC	ASUR	Technology
AUBURN NATL BANCORP	AUBN	Financial Services
AVAYA HOLDINGS CORP	AVYA	Technology
AVEO PHARMACEUTICALS INC	AVEO	Health Care
AVID BIOSERVICES INC	CDMO	Health Care
AXA EQUITABLE HOLDINGS	EQH	Financial Services
BANK OF PRINCETON	BPRN	Financial Services
BAYCOM CORPORATION	BCML	Financial Services
BBX CAPITAL CORP	BBX	Financial Services
BLACKSTONE MORTGAGE TRST	BXMT	Financial Services
BLUELIX HOLDINGS INC	BXC	Materials & Processing
BOSTON OMAHA	BOMN	Consumer Discretionary
BRIDGEWATER BANCSHARES	BWB	Financial Services
BRT APARTMENTS CORP	BRT	Financial Services
BUSINESS FIRST BANCSHARE	BFST	Financial Services
CAMBRIDGE BANCORP	CATC	Financial Services
CARBON BLACK	CBLK	Technology
CAREDX INC	CDNA	Health Care
CARGURUS INC	CARG	Technology
CASI PHARMACEUTICALS INC	CASI	Health Care
CATALYST BIOSCIENCES INC	CBIO	Health Care
CB FINL SVCS INC	CBFV	Financial Services
CELLULAR BIOMEDICINE GRP	CBMG	Health Care
CELSIUS HOLDINGS INC	CELH	Consumer Staples
CERIDIAN HCM HOLDING	CDAY	Technology
CHROMADEx CORP	CDXC	Materials & Processing
CISION	CISN	Technology

# Reconstitution

## Russell 3000® Index - Additions

Company	Symbol	Sector
COHBAR INC	CWBR	Health Care
COLONY NORTHSTAR CR REAL	CLNC	Financial Services
COLUMBIA FINANCIAL INC	CLBK	Financial Services
CONVERGEONE HOLDINGS (A)	CVON	Producer Durables
CRYOPORT INC	CYRX	Producer Durables
CTI BIOPHARMA CORP	CTIC	Health Care
CYMABAY THERAPEUTICS INC	CBAY	Health Care
CYTOSORBENTS CORP	CTSO	Health Care
DASAN ZHONG SOLUTIONS	DZSI	Technology
DAWSON GEOPHYSICAL CO	DWSN	Energy
DICERNA PHARMACEUTICALS	DRNA	Health Care
DOCUSIGN	DOCU	Technology
EGAIN CORPORATION	EGAN	Technology
ELOXX PHARMACEUTICALS	ELOX	Health Care
ENDOCYTE INC	ECYT	Health Care
ENERGY FUELS INC	UUUU	Materials & Processing
ENPHASE ENERGY INC	ENPH	Energy
ESQUIRE FINANCIAL HLDGS	ESQ	Financial Services
EVELO BIOSCIENCES	EVLO	Health Care
EXELA TECHNOLOGIES	XELA	Producer Durables
FENNEC PHARMACEUTICALS	FENC	Health Care
FGL HOLDINGS	FG	Financial Services
FIDELITY D&D BANCORP INC	FDBC	Financial Services
FIRST BANK WILLIAMSTOWN	FRBA	Financial Services
FIRST CHOICE BANCORP	FCBP	Financial Services
FIRST CMNTY CORP SC	FCCO	Financial Services
FIRST SAVINGS FINANCIAL	FSFG	Financial Services
FIRST UNITED CORP	FUNC	Financial Services
FS BANCORP INC	FSBW	Financial Services
FUELCELL ENERGY INC	FCEL	Energy
FUSION CONNECT INC	FSNN	Utilities
GENERAL FINANCE CORP	GFN	Producer Durables
GLADSTONE LAND INC	LAND	Financial Services
GLYCOMIMETICS INC	GLYC	Health Care
GOODRICH PETROLEUM CORP	GDP	Energy
GOOSEHEAD INSURANCE	GSHD	Financial Services
GRAFTECH INTERNATIONAL	EAF	Materials & Processing
GTX INC	GTXI	Health Care
GULFMARK OFFSHORE INC	GLF	Producer Durables
HARVARD BIOSCIENCE INC	HBIO	Health Care
HELIUS MEDICAL TECH	HSDT	Health Care
HOMOLOGY MEDICINES	FIXX	Health Care
INFRASTRUCTURE & ENERGY	IEA	Energy
INNOVATIVE INDUSTRIAL	IIPR	Financial Services
INSPIRE MEDICAL SYSTEMS	INSP	Health Care
INTRICON CORP	IIN	Health Care
ION GEOPHYSICAL CORP	IO	Energy
IRADIMED CORPORATION	IRMD	Health Care
JAZZ PHARMACEUTICALS PLC	JAZZ	Health Care

# Reconstitution

## Russell 3000® Index - Additions

Company	Symbol	Sector
KADMON HOLDINGS INC	KDMN	Health Care
LEVEL ONE BANCORP INC	LEVL	Financial Services
LIBERTY LATIN AMERICA A	LILA	Consumer Discretionary
LIBERTY LATIN AMERICA C	LILAK	Consumer Discretionary
LIVEXLIVE MEDIA	LIVX	Consumer Discretionary
MANITEX INTL INC	MNTX	Producer Durables
MANNKIND CORP	MNKD	Health Care
MARINUS PHARMACEUTICALS	MRNS	Health Care
MARRONE BIO INNOVATIONS	MBII	Materials & Processing
MAXAR TECHNOLOGIES	MAXR	Technology
MID PENN BANCORP INC	MPB	Financial Services
MIRATI THERAPEUTICS INC	MRTX	Health Care
MOLECULAR TEMPLATES	MTEM	Health Care
MONSTER DIGITAL INC	INNT	Health Care
MUSTANG BIO	MBIO	Health Care
MVB FINANCIAL CORP	MVBF	Financial Services
NEW YORK & CO INC	NWY	Consumer Discretionary
NEXTDECADE	NEXT	Energy
NII HOLDINGS INC	NIHD	Utilities
NLIGHT	LASR	Technology
NORTHERN OIL & GAS INC	NOG	Energy
NUVECTRA CORPORATION	NVTR	Health Care
NUVERRA ENVTL SOLUTIONS	NES	Energy
OAK VALLEY BANCORP	OVLY	Financial Services
OCEAN RIG UDW INC	ORIG	Energy
OP BANCORP	OPBK	Financial Services
ORIGIN BANCORP	OBNK	Financial Services
P A M TRANSN SVCS INC	PTSI	Producer Durables
PALATIN TECHNOLOGIES INC	PTN	Health Care
PAR TECHNOLOGY CORP	PAR	Technology
PDL COMMUNITY BANCORP	PDLB	Financial Services
PFENEX INC	PFNX	Health Care
PFSWEB INC	PFSW	Producer Durables
POLARITYTE INC	COOL	Technology
PRGX GLOBAL INC	PRGX	Producer Durables
PROFIRE ENERGY INC	PFIE	Energy
PROTEOSTASIS THERA INC	PTI	Health Care
PURPLE INNOVATION INC	PRPL	Consumer Discretionary
QUORUM HEALTH CORP	QHC	Health Care
REMARK HOLDINGS INC	MARK	Technology
RIMINI STREET INC	RMNI	Technology
ROCKET PHARMACEUTICALS	RCKT	Health Care
ROCKY BRANDS INC	RCKY	Consumer Discretionary
ROKU INC	ROKU	Consumer Discretionary
SAVARA INC	SVRA	Health Care
SB ONE BANCORP	SBBX	Financial Services
SEASPINE HOLDINGS CORP	SPNE	Health Care
SELECT BANCORP INC	SLCT	Financial Services
SENSEONICS HOLDINGS INC	SENS	Health Care

# Reconstitution

## Russell 3000® Index - Additions

Company	Symbol	Sector
SHOTSPOTTER	SSTI	Technology
SIEBERT FINANCIAL CORP	SIEB	Financial Services
SIGA TECHNOLOGIES INC	SIGA	Health Care
SIMPLY GOOD FOODS	SMPL	Consumer Staples
SKYLINE CHAMPION CORP	SKY	Consumer Discretionary
SORRENTO THERAPEUTICS	SRNE	Health Care
SPIRIT OF TEXAS BNCSHRES	STXB	Financial Services
SPRING BANK PHARMA	SBPH	Health Care
SURFACE ONCOLOGY	SURF	Health Care
SYNALLOY CORP	SYNL	Materials & Processing
SYNLOGIC INC	SYBX	Health Care
T2 BIOSYSTEMS INC	TTOO	Health Care
TANDEM DIABETES CARE INC	TNDM	Health Care
TELARIA INC	TLRA	Technology
TIDEWATER INC	TDW	Producer Durables
TOWN SPORTS INTL	CLUB	Consumer Discretionary
TRANSENERIX INC	TRXC	Health Care
TRAVELZOO	TZOO	Technology
TURTLE BEACH CORP	HEAR	Technology
TYME	TYME	Health Care
UNITY BIOTECHNOLOGY	UBX	Health Care
UNIV STAINLESS AND ALLOY	USAP	Materials & Processing
UNUM THERAPEUTICS	UMRX	Health Care
USA TRUCK INC	USAK	Producer Durables
VERASTEM INC	VSTM	Health Care
VERICEL CORP	VCEL	Health Care
VIKING THERAPEUTICS INC	VKTX	Health Care
VITAL THERAPIES INC	VTL	Health Care
VUZIX CORP	VUZI	Consumer Discretionary
WILLSCOT CORPORATION	WSC	Producer Durables
XOMA CORP	XOMA	Health Care
ZAFGEN INC	ZFGN	Health Care
ZION OIL & GAS INC	ZN	Energy
ZOMEDICA PHARMACEUTICALS	ZOM	Health Care
ZSCALER	ZS	Technology



# Reconstitution

## For more information about our indexes, please visit [ftserussell.com](https://ftserussell.com).

© 2018 London Stock Exchange Group plc and its applicable group undertakings (the "LSE Group"). The LSE Group includes (1) FTSE International Limited ("FTSE"), (2) Frank Russell Company ("Russell"), (3) FTSE TMX Global Debt Capital Markets Inc. and FTSE TMX Global Debt Capital Markets Limited (together, "FTSE TMX"), (4) MTSNext Limited ("MTSNext"), (5) Mergent, Inc. ("Mergent"), (6) FTSE Fixed Income LLC ("FTSE FI") and (7) The Yield Book Inc ("YB"). All rights reserved.

FTSE Russell® is a trading name of FTSE, Russell, FTSE TMX, MTS Next Limited, Mergent, FTSE FI and YB. "FTSE®", "Russell®", "FTSE Russell®", "MTS®", "FTSE4Good®", "ICB®", "Mergent®", "WorldBIG®", "USBIG®", "EuroBIG®", "AusBIG®", "The Yield Book®", and all other trademarks and service marks used herein (whether registered or unregistered) are trademarks and/or service marks owned or licensed by the applicable member of the LSE Group or their respective licensors and are owned, or used under licence, by FTSE, Russell, MTSNext, FTSE TMX, Mergent, FTSE FI or YB. "TMX®" is a registered trademark of TSX Inc.

All information is provided for information purposes only. All information and data contained in this publication is obtained by the LSE Group, from sources believed by it to be accurate and reliable. Because of the possibility of human and mechanical error as well as other factors, however, such information and data is provided "as is" without warranty of any kind. No member of the LSE Group nor their respective directors, officers, employees, partners or licensors make any claim, prediction, warranty or representation whatsoever, expressly or impliedly, either as to the accuracy, timeliness, completeness, merchantability of any information or of results to be obtained from the use of the FTSE Russell Products or the fitness or suitability of the FTSE Russell Products for any particular purpose to which they might be put. Any representation of historical data accessible through FTSE Russell Products is provided for information purposes only and is not a reliable indicator of future performance.

No responsibility or liability can be accepted by any member of the LSE Group nor their respective directors, officers, employees, partners or licensors for (a) any loss or damage in whole or in part caused by, resulting from, or relating to any error (negligent or otherwise) or other circumstance involved in procuring, collecting, compiling, interpreting, analysing, editing, transcribing, transmitting, communicating or delivering any such information or data or from use of this document or links to this document or (b) any direct, indirect, special, consequential or incidental damages whatsoever, even if any member of the LSE Group is advised in advance of the possibility of such damages, resulting from the use of, or inability to use, such information.

No member of the LSE Group nor their respective directors, officers, employees, partners or licensors provide investment advice and nothing contained in this document or accessible through FTSE Russell Products, including statistical data and industry reports, should be taken as constituting financial or investment advice or a financial promotion.

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

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