

Margin rates, borrowable and marginable securities and discounts list

1. Interest rates in respect of margin loans

The interest rates for loans related to securities listed in paragraph 2 hereof shall be Key Rate of the Central Bank of the Russian Federation plus 8,25% per annum for monetary funds and 14% per annum for securities. Where transaction is arranged by us with/through prime broker interest rates charged for loans shall be Key rate of the Central Bank of the Russian Federation multiplied by 1,1 per annum; roll-over fees shall be percent per annum calculated for monetary funds as difference between Key Rate of the Central Bank of the Russian Federation plus 8,25% per annum and Key Rate of the Central Bank of the Russian Federation multiplied by 1,1 per annum and for securities as difference between 14% per annum and Key Rate of the Central Bank of the Russian Federation multiplied by 1,1 per annum .

The interest rates for loans related to securities listed in paragraph 3 hereof shall be 7% per annum for monetary funds and 7% per annum for securities.

The interest rates for loans related to securities listed in paragraph 3 hereof under tariff plan “BCS Voice Trading” shall be 5% per annum for monetary funds and 5% per annum for securities.

In case you order us to transmit or execute you order for margin trade in securities not listed herein we have the right in our sole discretion to transmit or execute such trade or refuse such transmission or execution. In case we agree to transmit or execute such order, different rates and fees may apply (including but not limited to those referred to in clause 9.2 of the General Terms).

2. Borrowable and marginable securities (MOEX)

The following securities listed on MOEX are borrowable and marginable securities and the following Initial discount and maintenance discount rates shall apply, unless communicated to you otherwise:

Name of issuer/ Наименование эмитента	ISIN	Initial Discount		Maintenance Discount	
		marginable	borrowable	marginable	borrowable
EN + GROUP ИПАО ОРД ШС	RU000A100K72	50,0%	40,0%	30,0%	24,0%
GLOBALTRANS S	US37949E2046	40,0%	30,0%	24,0%	18,0%
MAIL.RU GROUP	US5603172082	40,0%	25,0%	24,0%	15,0%
Petropavlovsk PLC	GB0031544546	40,0%	40,0%	24,0%	24,0%
PLLC Yandex N.V.	NL0009805522	40,0%	30,0%	24,0%	18,0%
Polymetal International plc	JE00B6T5S470	40,0%	20,0%	24,0%	12,0%
QIWI PLC	US74735M1080	50,0%	50,0%	30,0%	30,0%
ROS AGRO PLC ORD SHS	US7496552057	50,0%	50,0%	30,0%	30,0%
TCS Group Holding PLC	US87238U2033	50,0%	40,0%	30,0%	24,0%
X 5 RETAIL	US98387E2054	40,0%	40,0%	24,0%	24,0%
АДР Ozon Holdings PLC ORD SHS	US69269L1044	70,0%	70,0%	42,0%	42,0%

МКПАО "ОК РУСАЛ"	RU000A1025V3	40,0%	40,0%	24,0%	24,0%
МКПАО Лента др	US52634T2006	50,0%	50,0%	30,0%	30,0%
ПАО "Акрон"	RU0009028674	40,0%	40,0%	24,0%	24,0%
ПАО "Аэрофлот"	RU0009062285	40,0%	20,0%	24,0%	12,0%
ПАО "Газпром нефть"	RU0009062467	40,0%	30,0%	24,0%	18,0%
ПАО "Газпром"	RU0007661625	50,0%	30,0%	30,0%	18,0%
ПАО "ГК "Самолет"	RU000A0ZZG02	60,0%	60,0%	36,0%	36,0%
ПАО "Группа компаний ПИК"	RU000A0JP7J7	40,0%	40,0%	24,0%	24,0%
ПАО "Группа ЛСР"	RU000A0JPF00	40,0%	40,0%	24,0%	24,0%
ПАО "Детский мир"	RU000A0JSQ90	40,0%	40,0%	24,0%	24,0%
ПАО "ИНТЕР РАО ЕЭС"	RU000A0JPNM1	40,0%	20,0%	24,0%	12,0%
ПАО "Компания М.видео"	RU000A0JPGA0	40,0%	30,0%	24,0%	18,0%
ПАО "Корпорация ВСМПО-АВИСМА"	RU0009100291	75,0%	100,0%	45,0%	60,0%
ПАО "Ленэнерго"	RU0009092134	40,0%	40,0%	24,0%	24,0%
ПАО "Магнит"	RU000A0JKQU8	40,0%	20,0%	24,0%	12,0%
ПАО "Мечел"	RU000A0DKXV5	40,0%	40,0%	24,0%	24,0%
ПАО "Мечел"	RU000A0JPV70	40,0%	40,0%	24,0%	24,0%
ПАО "МКБ"	RU000A0JUG31	40,0%	30,0%	24,0%	18,0%
ПАО "ММК"	RU0009084396	30,0%	20,0%	18,0%	12,0%
ПАО "Мобильные ТелеСистемы"	RU0007775219	40,0%	20,0%	24,0%	12,0%
ПАО "Московская Биржа"	RU000A0JR4A1	40,0%	20,0%	24,0%	12,0%
ПАО "Мосэнерго"	RU0008958863	40,0%	40,0%	24,0%	24,0%
ПАО "МРСК Центра и Приволжья"	RU000A0JPN96	40,0%	40,0%	24,0%	24,0%
ПАО "МРСК Центра"	RU000A0JPPL8	40,0%	40,0%	24,0%	24,0%
ПАО "Нижнекамскнефтехим"	RU0006765096	40,0%	40,0%	24,0%	24,0%
ПАО "НК "Роснефть"	RU000A0J2Q06	40,0%	30,0%	24,0%	18,0%
ПАО "НК ЛУКОЙЛ"	RU0009024277	40,0%	30,0%	24,0%	18,0%
ПАО "НЛМК"	RU0009046452	30,0%	20,0%	18,0%	12,0%
ПАО "НМТП"	RU0009084446	40,0%	40,0%	24,0%	24,0%
ПАО "НОВАТЭК"	RU000A0DKV55	40,0%	30,0%	24,0%	18,0%
ПАО "ОГК-2"	RU000A0JNG55	40,0%	30,0%	24,0%	18,0%
ПАО "Полюс Золото"	RU000A0JNAA8	30,0%	25,0%	18,0%	15,0%
ПАО "Распадская"	RU000A0B90N8	40,0%	32,0%	24,0%	19,2%
ПАО "Россети"	RU000A0JPVJ0	40,0%	20,0%	24,0%	12,0%
ПАО "Россети"	RU000A0JPVK8	40,0%	40,0%	24,0%	24,0%
ПАО "Ростелеком"	RU0008943394	40,0%	20,0%	24,0%	12,0%
ПАО "Ростелеком"	RU0009046700	40,0%	40,0%	24,0%	24,0%
ПАО "РусГидро"	RU000A0JPKH7	40,0%	25,0%	24,0%	15,0%
ПАО "Русская Аквакультура"	RU000A0JQTS3	55,0%	70,0%	33,0%	42,0%
ПАО "Сбербанк России"	RU0009029540	50,0%	30,0%	30,0%	18,0%
ПАО "Сбербанк России"	RU0009029557	50,0%	30,0%	30,0%	18,0%
ПАО "Северсталь"	RU0009046510	30,0%	20,0%	18,0%	12,0%
ПАО "Сегежа"	RU000A102XG9	70,0%	100,0%	42,0%	60,0%
ПАО "Совкомфлот"	RU000A0JXNU8	50,0%	100,0%	30,0%	60,0%

ПАО "Сургутнефтегаз"	RU0008926258	40,0%	30,0%	24,0%	18,0%
ПАО "Сургутнефтегаз"	RU0009029524	40,0%	30,0%	24,0%	18,0%
ПАО "Татнефть"	RU0009033591	40,0%	30,0%	24,0%	18,0%
ПАО "Татнефть"	RU0006944147	40,0%	30,0%	24,0%	18,0%
ПАО "ТГК-1"	RU000A0JNUD0	40,0%	30,0%	24,0%	18,0%
ПАО "ТМК"	RU000A0B6NK6	40,0%	35,0%	24,0%	21,0%
ПАО "ФосАгро"	RU000A0JRKT8	30,0%	30,0%	18,0%	18,0%
ПАО "ФСК ЭЭС"	RU000A0JPNN9	40,0%	27,0%	24,0%	16,2%
ПАО "Энел Россия"	RU000A0F5UN3	40,0%	40,0%	24,0%	24,0%
ПАО "Юнипро"	RU000A0JNGA5	40,0%	30,0%	24,0%	18,0%
ПАО АК "АЛРОСА"	RU0007252813	40,0%	20,0%	24,0%	12,0%
ПАО АК "Транснефть"	RU0009091573	40,0%	30,0%	24,0%	18,0%
ПАО АНК "Башнефть"	RU0007976957	40,0%	40,0%	24,0%	24,0%
ПАО АНК "Башнефть"	RU0007976965	40,0%	30,0%	24,0%	18,0%
ПАО АФК "Система"	RU000A0DQZE3	40,0%	30,0%	24,0%	18,0%
ПАО Банк ВТБ	RU000A0JP5V6	50,0%	30,0%	30,0%	18,0%
ПАО ГМК "Норильский Никель"	RU0007288411	30,0%	20,0%	18,0%	12,0%
РуссНефть НК ПАО ао	RU000A0JSE60	65,0%	100,0%	39,0%	60,0%
FinEx Cash Equivalents UCITS ETF (RUB Hedged Shares)	IE00BL3DYX33	70,0%	100,0%	42,0%	60,0%
FinEx Gold ETF USD	IE00B8XB7377	100,0%	100,0%	60,0%	60,0%
FinEx MSCI China UCITS ETF (USD Share Class)	IE00BD3QFB18	70,0%	100,0%	42,0%	60,0%
FinEx MSCI Germany UCITS ETF (EUR)	IE00BD3QJN10	100,0%	100,0%	60,0%	60,0%
FinEx MSCI USA Information Technology UCITS ETF (USD)	IE00BD3QJ757	70,0%	100,0%	42,0%	60,0%
FinEx MSCI USA UCITS ETF (USD)	IE00BD3QHZ91	100,0%	100,0%	60,0%	60,0%
FinEx Russian RTS Equity UCITS ETF USD Classs	IE00BQ1Y6480	100,0%	100,0%	60,0%	60,0%
FinEx Tradable Russian Corporate Bonds UCITS ETF (RUB Share Class)	IE00B7L7CP77	100,0%	100,0%	60,0%	60,0%
FinEx Tradable Russian Corporate Bonds UCITS ETF (USD Share Class)	IE00BD5FH213	100,0%	100,0%	60,0%	60,0%
Министерство финансов РФ	RU000A100QS2	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JS3W6	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JSMA2	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JTJL3	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JTK38	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JU4L3	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JVW48	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JWM07	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JXB41	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JXFM1	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JXQF2	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0ZYU88	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0ZYUA9	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0ZYUB7	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0ZZYW2	50,0%	50,0%	30,0%	30,0%

Министерство финансов РФ	RU000A1007F4	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A100A82	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A100EG3	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A100EF5	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A1014N4	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JV4L2	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JV4M0	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JV4P3	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JV4N8	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JV4Q1	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JX0H6	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU0002867854	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU0002868001	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0GN9A7	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JPLH5	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JRTL6	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0JVMH1	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A0ZYZ26	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A101FA1	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A102BT8	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A1028E3	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A101QE0	50,0%	50,0%	30,0%	30,0%
Министерство финансов РФ	RU000A101F94	50,0%	50,0%	30,0%	30,0%

3. Borrowable and marginable securities (other than MOEX)

The following securities listed on exchanges other than MOEX are borrowable and marginable Securities and the following initial discount and maintenance discount rates shall apply, unless communicated to you otherwise:

Ticker	ISIN	Initial Discount		Maintenance Discount	
		marginable	borrowable	marginable	borrowable
A	US00846U1016	-	-	-	-
AA	US0138721065	-	-	-	-
AAL	US02376R1023	-	-	-	-
AAN	US0025353006	-	-	-	-
AAON	US0003602069	-	-	-	-
AAP	US00751Y1064	-	-	-	-
AAPL	US0378331005	-	-	-	-
AAT	US0240131047	-	-	-	-
AAWW	US0491642056	-	-	-	-
AAXJ	US4642881829	-	-	-	-
AAXN	US05464C1018	-	-	-	-

ABB	US0003752047	-	-	-	-
ABBV	US00287Y1091	-	-	-	-
ABC	US03073E1055	-	-	-	-
ABCB	US03076K1088	-	-	-	-
ABEV	US02319V1035	-	-	-	-
ABG	US0434361046	-	-	-	-
ABM	US0009571003	-	-	-	-
ABMD	US0036541003	-	-	-	-
ABR	US0389231087	-	-	-	-
ABT	US0028241000	-	-	-	-
ACAD	US0042251084	-	-	-	-
ACC	US0248351001	-	-	-	-
ACGL	BMG0450A1053	-	-	-	-
ACHC	US00404A1097	-	-	-	-
ACIA	US00401C1080	-	-	-	-
ACIW	US0044981019	-	-	-	-
ACM	US00766T1007	-	-	-	-
ACN	IE00B4BNMY34	-	-	-	-
ACWI	US4642882579	-	-	-	-
ACWV	US4642865251	-	-	-	-
ACWX	US4642882405	-	-	-	-
ADBE	US00724F1012	-	-	-	-
ADC	US0084921008	-	-	-	-
ADI	US0326541051	-	-	-	-
ADM	US0394831020	-	-	-	-
ADNT	IE00BD845X29	-	-	-	-
ADP	US0530151036	-	-	-	-
ADS	US0185811082	-	-	-	-
ADSK	US0527691069	-	-	-	-
ADSW	US00790X1019	-	-	-	-
ADTN	US00738A1060	-	-	-	-
ADUS	US0067391062	-	-	-	-
AEE	US0236081024	-	-	-	-
AEIS	US0079731008	-	-	-	-
AEL	US0256762065	-	-	-	-
AEM	CA0084741085	-	-	-	-
AEO	US02553E1064	-	-	-	-
AEP	US0255371017	-	-	-	-
AERI	US00771V1089	-	-	-	-
AES	US00130H1059	-	-	-	-
AFG	US0259321042	-	-	-	-
AFL	US0010551028	-	-	-	-

AG	CA32076V1031	-	-	-	-
AGCO	US0010841023	-	-	-	-
AGG	US4642872265	-	-	-	-
AGI	CA0115321089	-	-	-	-
AGIO	US00847X1046	-	-	-	-
AGNC	US00123Q1040	-	-	-	-
AGO	BMG0585R1060	-	-	-	-
AGQ	US74347W3530	-	-	-	-
AGR	US05351W1036	-	-	-	-
AGRO	US7496552057	-	-	-	-
AGS	US72814N1046	-	-	-	-
AIG	US0268747849	-	-	-	-
AIMC	US02208R1068	-	-	-	-
AIMT	US00900T1079	-	-	-	-
AIN	US0123481089	-	-	-	-
AIR	US0003611052	-	-	-	-
AIT	US03820C1053	-	-	-	-
AIV	US03748R7540	-	-	-	-
AIZ	US04621X1081	-	-	-	-
AJG	US3635761097	-	-	-	-
AJRD	US0078001056	-	-	-	-
AKAM	US00971T1016	-	-	-	-
AKCA	US00972L1070	-	-	-	-
AKR	US0042391096	-	-	-	-
ALB	US0126531013	-	-	-	-
ALE	US0185223007	-	-	-	-
ALEX	US0144911049	-	-	-	-
ALG	US0113111076	-	-	-	-
ALGN	US0162551016	-	-	-	-
ALGT	US01748X1028	-	-	-	-
ALK	US0116591092	-	-	-	-
ALKS	IE00B56GVS15	-	-	-	-
ALL	US0200021014	-	-	-	-
ALLE	IE00BFRT3W74	-	-	-	-
ALLY	US02005N1000	-	-	-	-
ALNY	US02043Q1076	-	-	-	-
ALRM	US0116421050	-	-	-	-
ALSN	US01973R1014	-	-	-	-
ALTR	US0213691035	-	-	-	-
ALV	US0528001094	-	-	-	-
ALXN	US0153511094	-	-	-	-
AMAT	US0382221051	-	-	-	-

AMBA	KYG037AX1015	-	-	-	-
AMC	US00165C1045	-	-	-	-
AMCX	US00164V1035	-	-	-	-
AMD	US0079031078	-	-	-	-
AME	US0311001004	-	-	-	-
AMED	US0234361089	-	-	-	-
AMG	US0082521081	-	-	-	-
AMGN	US0311621009	-	-	-	-
AMH	US02665T3068	-	-	-	-
AMJ	US46625H3654	-	-	-	-
AMN	US0017441017	-	-	-	-
AMP	US03076C1062	-	-	-	-
AMRX	US03168L1052	-	-	-	-
AMSF	US03071H1005	-	-	-	-
AMT	US03027X1000	-	-	-	-
AMTD	US87236Y1082	-	-	-	-
AMWD	US0305061097	-	-	-	-
AMX	US02364W1053	-	-	-	-
AMZN	US0231351067	-	-	-	-
AN	US05329W1027	-	-	-	-
ANAB	US0327241065	-	-	-	-
ANET	US0404131064	-	-	-	-
ANF	US0028962076	-	-	-	-
ANGI	US00183L1026	-	-	-	-
ANIK	US0352551081	-	-	-	-
ANIP	US00182C1036	-	-	-	-
ANSS	US03662Q1058	-	-	-	-
ANTM	US0367521038	-	-	-	-
AON	IE00BLP1HW54	-	-	-	-
AOS	US8318652091	-	-	-	-
APA	US0374111054	-	-	-	-
APAM	US04316A1088	-	-	-	-
APD	US0091581068	-	-	-	-
APH	US0320951017	-	-	-	-
APLE	US03784Y2000	-	-	-	-
APLS	US03753U1060	-	-	-	-
APOG	US0375981091	-	-	-	-
APPF	US03783C1009	-	-	-	-
APPN	US03782L1017	-	-	-	-
APTV	JE00B783TY65	-	-	-	-
AQUA	US30057T1051	-	-	-	-
ARCB	US03937C1053	-	-	-	-

ARCC	US04010L1035	-	-	-	-
ARE	US0152711091	-	-	-	-
ARGO	BMG0464B1072	-	-	-	-
ARGX	US04016X1019	-	-	-	-
ARI	US03762U1051	-	-	-	-
ARLP	US01877R1086	-	-	-	-
ARMK	US03852U1060	-	-	-	-
ARNA	US0400476075	-	-	-	-
AROC	US03957W1062	-	-	-	-
ARR	US0423155078	-	-	-	-
ARW	US0427351004	-	-	-	-
ARWR	US04280A1007	-	-	-	-
ASB	US0454871056	-	-	-	-
ASGN	US00191U1025	-	-	-	-
ASH	US0441861046	-	-	-	-
ASML	USN070592100	-	-	-	-
ASND	US04351P1012	-	-	-	-
ASR	US40051E2028	-	-	-	-
ATAD	US8766292051	-	-	-	-
ATGE	US00737L1035	-	-	-	-
ATH	BMG0684D1074	-	-	-	-
ATHM	US05278C1071	-	-	-	-
ATI	US01741R1023	-	-	-	-
ATKR	US0476491081	-	-	-	-
ATNX	US04685N1037	-	-	-	-
ATO	US0495601058	-	-	-	-
ATR	US0383361039	-	-	-	-
ATRC	US04963C2098	-	-	-	-
ATRI	US0499041053	-	-	-	-
ATRO	US0464331083	-	-	-	-
ATSG	US00922R1059	-	-	-	-
ATUS	US02156K1034	-	-	-	-
ATVI	US00507V1098	-	-	-	-
AU	US0351282068	-	-	-	-
AUY	CA98462Y1007	-	-	-	-
AVA	US05379B1070	-	-	-	-
AVAV	US0080731088	-	-	-	-
AVB	US0534841012	-	-	-	-
AVGO	US11135F1012	-	-	-	-
AVLR	US05338G1067	-	-	-	-
AVNS	US05350V1061	-	-	-	-
AVT	US0538071038	-	-	-	-

AVY	US0536111091	-	-	-	-
AVYA	US05351X1019	-	-	-	-
AWI	US04247X1028	-	-	-	-
AWK	US0304201033	-	-	-	-
AWR	US0298991011	-	-	-	-
AXB	US05462W1099	-	-	-	-
AXGN	US05463X1063	-	-	-	-
AXL	US0240611030	-	-	-	-
AXP	US0258161092	-	-	-	-
AXS	BMG0692U1099	-	-	-	-
AXSM	US05464T1043	-	-	-	-
AXTA	BMG0750C1082	-	-	-	-
AY	GB00BLP5YB54	-	-	-	-
AYI	US00508Y1029	-	-	-	-
AYX	US02156B1035	-	-	-	-
AZN	US0463531089	-	-	-	-
AZO	US0533321024	-	-	-	-
AZPN	US0453271035	-	-	-	-
AZUL	US05501U1060	-	-	-	-
AZZ	US0024741045	-	-	-	-
B	US0678061096	-	-	-	-
BA	US0970231058	-	-	-	-
BABA	US01609W1027	-	-	-	-
BAC	US0605051046	-	-	-	-
BAH	US0995021062	-	-	-	-
BAK	US1055321053	-	-	-	-
BAM	CA1125851040	-	-	-	-
BAND	US05988J1034	-	-	-	-
BANF	US05945F1030	-	-	-	-
BANR	US06652V2088	-	-	-	-
BAP	BMG2519Y1084	-	-	-	-
BAX	US0718131099	-	-	-	-
BB	CA09228F1036	-	-	-	-
BBBY	US0758961009	-	-	-	-
BBD	US0594603039	-	-	-	-
BBL	US05545E2090	-	-	-	-
BBVA	US05946K1016	-	-	-	-
BBY	US0865161014	-	-	-	-
BC	US1170431092	-	-	-	-
BCC	US09739D1000	-	-	-	-
BCE	CA05534B7604	-	-	-	-
BCO	US1096961040	-	-	-	-

BCOR	US0952291005	-	-	-	-
BCPC	US0576652004	-	-	-	-
BCS	US06738E2046	-	-	-	-
BDC	US0774541066	-	-	-	-
BDN	US1053682035	-	-	-	-
BDX	US0758871091	-	-	-	-
BEAT	US0906721065	-	-	-	-
BECN	US0736851090	-	-	-	-
BEN	US3546131018	-	-	-	-
BEP	BMG162581083	-	-	-	-
BERY	US08579W1036	-	-	-	-
BFAM	US1091941005	-	-	-	-
BFb	US1156372096	-	-	-	-
BG	BMG169621056	-	-	-	-
BGCP	US05541T1016	-	-	-	-
BGNE	US07725L1026	-	-	-	-
BGS	US05508R1068	-	-	-	-
BHC	CA0717341071	-	-	-	-
BHE	US08160H1014	-	-	-	-
BHF	US10922N1037	-	-	-	-
BHLB	US0846801076	-	-	-	-
BHP	US0886061086	-	-	-	-
BHVN	VGG111961055	-	-	-	-
BIB	US74347R2141	-	-	-	-
BIDU	US0567521085	-	-	-	-
BIG	US0893021032	-	-	-	-
BIIB	US09062X1037	-	-	-	-
BIL	US78468R6633	-	-	-	-
BILI	US0900401060	-	-	-	-
BIO	US0905722072	-	-	-	-
BIP	BMG162521014	-	-	-	-
BITA	US0917271076	-	-	-	-
BIV	US9219378190	-	-	-	-
BJRI	US09180C1062	-	-	-	-
BK	US0640581007	-	-	-	-
BKD	US1124631045	-	-	-	-
BKE	US1184401065	-	-	-	-
BKH	US0921131092	-	-	-	-
BKI	US09215C1053	-	-	-	-
BKNG	US09857L1089	-	-	-	-
BKR	US05722G1004	-	-	-	-
BKU	US06652K1034	-	-	-	-

BL	US09239B1098	-	-	-	-
BLD	US89055F1030	-	-	-	-
BLDR	US12008R1077	-	-	-	-
BLK	US09247X1019	-	-	-	-
BLKB	US09227Q1004	-	-	-	-
BLL	US0584981064	-	-	-	-
BLMN	US0942351083	-	-	-	-
BLUE	US09609G1004	-	-	-	-
BLV	US9219377937	-	-	-	-
BMA	US05961W1053	-	-	-	-
BMCH	US05591B1098	-	-	-	-
BMI	US0565251081	-	-	-	-
BMO	CA0636711016	-	-	-	-
BMRN	US09061G1013	-	-	-	-
BMY	US1101221083	-	-	-	-
BND	US9219378356	-	-	-	-
BNDX	US92203J4076	-	-	-	-
BNFT	US08180D1063	-	-	-	-
BNO	US91167Q1004	-	-	-	-
BNS	CA0641491075	-	-	-	-
BOH	US0625401098	-	-	-	-
BOND	US72201R7750	-	-	-	-
BOOM	US23291C1036	-	-	-	-
BOOT	US0994061002	-	-	-	-
BOTZ	US37954Y7159	-	-	-	-
BOX	US10316T1043	-	-	-	-
BP	US0556221044	-	-	-	-
BPFH	US1011191053	-	-	-	-
BPMC	US09627Y1091	-	-	-	-
BPOP	PR7331747001	-	-	-	-
BR	US11133T1034	-	-	-	-
BRC	US1046741062	-	-	-	-
BRFS	US10552T1079	-	-	-	-
BRKa	US0846701086	-	-	-	-
BRKb	US0846707026	-	-	-	-
BRKR	US1167941087	-	-	-	-
BRKS	US1143401024	-	-	-	-
BRO	US1152361010	-	-	-	-
BRX	US11120U1051	-	-	-	-
BSAC	US05965X1090	-	-	-	-
BSBR	US05967A1079	-	-	-	-
BSMX	US05969B1035	-	-	-	-

BSV	US9219378273	-	-	-	-
BSX	US1011371077	-	-	-	-
BTE	CA07317Q1054	-	-	-	-
BTG	CA11777Q2099	-	-	-	-
BTI	US1104481072	-	-	-	-
BTU	US7045511000	-	-	-	-
BUD	US03524A1088	-	-	-	-
BURL	US1220171060	-	-	-	-
BUSE	US3193832041	-	-	-	-
BVN	US2044481040	-	-	-	-
BWA	US0997241064	-	-	-	-
BWX	US78464A5166	-	-	-	-
BWXT	US05605H1005	-	-	-	-
BXMT	US09257W1009	-	-	-	-
BXP	US1011211018	-	-	-	-
BXS	US05971J1025	-	-	-	-
BYD	US1033041013	-	-	-	-
BYND	US08862E1091	-	-	-	-
BZUN	US06684L1035	-	-	-	-
C	US1729674242	-	-	-	-
CABO	US12685J1051	-	-	-	-
CACC	US2253101016	-	-	-	-
CACI	US1271903049	-	-	-	-
CADE	US12739A1007	-	-	-	-
CAE	CA1247651088	-	-	-	-
CAG	US2058871029	-	-	-	-
CAH	US14149Y1082	-	-	-	-
CAJ	US1380063099	-	-	-	-
CAKE	US1630721017	-	-	-	-
CALM	US1280302027	-	-	-	-
CAR	US0537741052	-	-	-	-
CARA	US1407551092	-	-	-	-
CARG	US1417881091	-	-	-	-
CARS	US14575E1055	-	-	-	-
CASY	US1475281036	-	-	-	-
CAT	US1491231015	-	-	-	-
CATM	GB00BYT18414	-	-	-	-
CATY	US1491501045	-	-	-	-
CB	CH0044328745	-	-	-	-
CBKD	US2017122050	-	-	-	-
CBOE	US12503M1080	-	-	-	-
CBPO	KYG215151047	-	-	-	-

CBRE	US12504L1098	-	-	-	-
CBRL	US22410J1060	-	-	-	-
CBSH	US2005251036	-	-	-	-
CBT	US1270551013	-	-	-	-
CBU	US2036071064	-	-	-	-
CC	US1638511089	-	-	-	-
CCEP	GB00BDCPN049	-	-	-	-
CCI	US22822V1017	-	-	-	-
CCJ	CA13321L1085	-	-	-	-
CCK	US2283681060	-	-	-	-
CCL	PA1436583006	-	-	-	-
CCMP	US12709P1030	-	-	-	-
CCOI	US19239V3024	-	-	-	-
CDAY	US15677J1088	-	-	-	-
CDE	US1921085049	-	-	-	-
CDEV	US15136A1025	-	-	-	-
CDK	US12508E1010	-	-	-	-
CDNS	US1273871087	-	-	-	-
CDW	US12514G1085	-	-	-	-
CDXS	US1920051067	-	-	-	-
CE	US1508701034	-	-	-	-
CEIX	US20854L1089	-	-	-	-
CENTA	US1535272058	-	-	-	-
CENX	US1564311082	-	-	-	-
CEO	US1261321095	-	-	-	-
CERN	US1567821046	-	-	-	-
CF	US1252691001	-	-	-	-
CFG	US1746101054	-	-	-	-
CFR	US2298991090	-	-	-	-
CFX	US1940141062	-	-	-	-
CGNX	US1924221039	-	-	-	-
CHCO	US1778351056	-	-	-	-
CHCT	US20369C1062	-	-	-	-
CHD	US1713401024	-	-	-	-
CHDN	US1714841087	-	-	-	-
CHE	US16359R1032	-	-	-	-
CHEF	US1630861011	-	-	-	-
CHGG	US1630921096	-	-	-	-
CHH	US1699051066	-	-	-	-
CHKP	IL0010824113	-	-	-	-
CHL	US16941M1099	-	-	-	-
CHRS	US19249H1032	-	-	-	-

CHRW	US12541W2098	-	-	-	-
CHTR	US16119P1084	-	-	-	-
CI	US1255231003	-	-	-	-
CIB	US05968L1026	-	-	-	-
CIEN	US1717793095	-	-	-	-
CIG	US2044096012	-	-	-	-
CIGI	CA1946931070	-	-	-	-
CIM	US16934Q2084	-	-	-	-
CINF	US1720621010	-	-	-	-
CIR	US17273K1097	-	-	-	-
CIT	US1255818015	-	-	-	-
CL	US1941621039	-	-	-	-
CLB	NL0000200384	-	-	-	-
CLDR	US18914U1007	-	-	-	-
CLF	US1858991011	-	-	-	-
CLGX	US21871D1037	-	-	-	-
CLH	US1844961078	-	-	-	-
CLI	US5544891048	-	-	-	-
CLNC	US19625T1016	-	-	-	-
CLNY	US19626G1085	-	-	-	-
CLR	US2120151012	-	-	-	-
CLX	US1890541097	-	-	-	-
CM	CA1360691010	-	-	-	-
CMA	US2003401070	-	-	-	-
CMC	US2017231034	-	-	-	-
CMCSA	US20030N1019	-	-	-	-
CMD	US1380981084	-	-	-	-
CME	US12572Q1058	-	-	-	-
CMG	US1696561059	-	-	-	-
CMI	US2310211063	-	-	-	-
CMO	US14067E5069	-	-	-	-
CMP	US20451N1019	-	-	-	-
CMS	US1258961002	-	-	-	-
CNA	US1261171003	-	-	-	-
CNC	US15135B1017	-	-	-	-
CNI	CA1363751027	-	-	-	-
CNK	US17243V1026	-	-	-	-
CNMD	US2074101013	-	-	-	-
CNNE	US13765N1072	-	-	-	-
CNO	US12621E1038	-	-	-	-
CNP	US15189T1079	-	-	-	-
CNQ	CA1363851017	-	-	-	-

CNS	US19247A1007	-	-	-	-
CNX	US12653C1080	-	-	-	-
COF	US14040H1059	-	-	-	-
COG	US1270971039	-	-	-	-
COHR	US1924791031	-	-	-	-
COIN	US19260Q1076	-	-	-	-
COKE	US1910981026	-	-	-	-
COLB	US1972361026	-	-	-	-
COLM	US1985161066	-	-	-	-
COMM	US20337X1090	-	-	-	-
CONE	US23283R1005	-	-	-	-
CONN	US2082421072	-	-	-	-
COO	US2166484020	-	-	-	-
COP	US20825C1045	-	-	-	-
COR	US21870Q1058	-	-	-	-
CORE	US2186811046	-	-	-	-
CORN	US88166A1025	-	-	-	-
CORT	US2183521028	-	-	-	-
COST	US22160K1051	-	-	-	-
COTY	US2220702037	-	-	-	-
COUP	US22266L1061	-	-	-	-
CP	CA13645T1003	-	-	-	-
CPA	PAP310761054	-	-	-	-
CPB	US1344291091	-	-	-	-
CPER	US9117181043	-	-	-	-
CPG	CA22576C1014	-	-	-	-
CPK	US1653031088	-	-	-	-
CPRI	VGG1890L1076	-	-	-	-
CPRT	US2172041061	-	-	-	-
CPS	US21676P1030	-	-	-	-
CPT	US1331311027	-	-	-	-
CR	US2243991054	-	-	-	-
CREE	US2254471012	-	-	-	-
CRH	US12626K2033	-	-	-	-
CRI	US1462291097	-	-	-	-
CRL	US1598641074	-	-	-	-
CRM	US79466L3024	-	-	-	-
CRON	CA22717L1013	-	-	-	-
CROX	US2270461096	-	-	-	-
CRS	US1442851036	-	-	-	-
CRSP	CH0334081137	-	-	-	-
CRTO	US2267181046	-	-	-	-

CRUS	US1727551004	-	-	-	-
CS	US2254011081	-	-	-	-
CSCO	US17275R1023	-	-	-	-
CSGP	US22160N1090	-	-	-	-
CSGS	US1263491094	-	-	-	-
CSII	US1416191062	-	-	-	-
CSIQ	CA1366351098	-	-	-	-
CSL	US1423391002	-	-	-	-
CSOD	US21925Y1038	-	-	-	-
CSX	US1264081035	-	-	-	-
CTAS	US1729081059	-	-	-	-
CTB	US2168311072	-	-	-	-
CTL	US1567001060	-	-	-	-
CTLT	US1488061029	-	-	-	-
CTRE	US14174T1079	-	-	-	-
CTSH	US1924461023	-	-	-	-
CTVA	US22052L1044	-	-	-	-
CTXS	US1773761002	-	-	-	-
CUB	US2296691064	-	-	-	-
CUBE	US2296631094	-	-	-	-
CUK	US14365C1036	-	-	-	-
CVA	US22282E1029	-	-	-	-
CVBF	US1266001056	-	-	-	-
CVCO	US1495681074	-	-	-	-
CVE	CA15135U1093	-	-	-	-
CVGW	US1282461052	-	-	-	-
CVI	US12662P1084	-	-	-	-
CVLT	US2041661024	-	-	-	-
CVNA	US1468691027	-	-	-	-
CVS	US1266501006	-	-	-	-
CVX	US1667641005	-	-	-	-
CW	US2315611010	-	-	-	-
CWB	US78464A3591	-	-	-	-
CWH	US13462K1097	-	-	-	-
CWST	US1474481041	-	-	-	-
CWT	US1307881029	-	-	-	-
CX	US1512908898	-	-	-	-
CXO	US20605P1012	-	-	-	-
CXP	US1982872038	-	-	-	-
CXW	US21871N1019	-	-	-	-
CYBR	IL0011334468	-	-	-	-
CZZ	BMG253431073	-	-	-	-

D	US25746U1097	-	-	-	-
DAL	US2473617023	-	-	-	-
DAN	US2358252052	-	-	-	-
DAR	US2372661015	-	-	-	-
DBC	US46138B1035	-	-	-	-
DBD	US2536511031	-	-	-	-
DBX	US26210C1045	-	-	-	-
DCI	US2576511099	-	-	-	-
DCP	US23311P1003	-	-	-	-
DCPH	US24344T1016	-	-	-	-
DD	US26614N1028	-	-	-	-
DDD	US88554D2053	-	-	-	-
DDM	US74347R3057	-	-	-	-
DDOG	US23804L1035	-	-	-	-
DDS	US2540671011	-	-	-	-
DE	US2441991054	-	-	-	-
DEA	US27616P1030	-	-	-	-
DECK	US2435371073	-	-	-	-
DEI	US25960P1093	-	-	-	-
DENN	US24869P1049	-	-	-	-
DEO	US25243Q2057	-	-	-	-
DFS	US2547091080	-	-	-	-
DG	US2566771059	-	-	-	-
DGX	US74834L1008	-	-	-	-
DHI	US23331A1097	-	-	-	-
DHR	US2358511028	-	-	-	-
DIA	US78467X1090	-	-	-	-
DIN	US2544231069	-	-	-	-
DIOD	US2545431015	-	-	-	-
DIS	US2546871060	-	-	-	-
DISCA	US25470F1049	-	-	-	-
DISCK	US25470F3029	-	-	-	-
DISH	US25470M1099	-	-	-	-
DK	US24665A1034	-	-	-	-
DKS	US2533931026	-	-	-	-
DLB	US25659T1079	-	-	-	-
DLPH	JE00BD85SC56	-	-	-	-
DLR	US2538681030	-	-	-	-
DLTR	US2567461080	-	-	-	-
DLX	US2480191012	-	-	-	-
DNKN	US2655041000	-	-	-	-
DNLI	US24823R1059	-	-	-	-

DNOW	US67011P1003	-	-	-	-
DOC	US71943U1043	-	-	-	-
DOCU	US2561631068	-	-	-	-
DOG	US74347B2354	-	-	-	-
DOOR	CA5753851099	-	-	-	-
DORM	US2582781009	-	-	-	-
DOV	US2600031080	-	-	-	-
DOW	US2605571031	-	-	-	-
DOX	GB0022569080	-	-	-	-
DPZ	US25754A2015	-	-	-	-
DRE	US2644115055	-	-	-	-
DRH	US2527843013	-	-	-	-
DRI	US2371941053	-	-	-	-
DRNA	US2530311081	-	-	-	-
DRQ	US2620371045	-	-	-	-
DSGX	CA2499061083	-	-	-	-
DT	US2681501092	-	-	-	-
DTE	US2333311072	-	-	-	-
DUK	US26441C2044	-	-	-	-
DUST	US25460G8805	-	-	-	-
DVA	US23918K1088	-	-	-	-
DVN	US25179M1036	-	-	-	-
DVY	US4642871689	-	-	-	-
DXC	US23355L1061	-	-	-	-
DXCM	US2521311074	-	-	-	-
DXD	US74347B2768	-	-	-	-
DXJ	US97717W8516	-	-	-	-
DY	US2674751019	-	-	-	-
EA	US2855121099	-	-	-	-
EAF	US3843135084	-	-	-	-
EAT	US1096411004	-	-	-	-
EBAY	US2786421030	-	-	-	-
EBIX	US2787152063	-	-	-	-
EBS	US29089Q1058	-	-	-	-
EC	US2791581091	-	-	-	-
ECH	US4642866408	-	-	-	-
ECL	US2788651006	-	-	-	-
ECPG	US2925541029	-	-	-	-
ED	US2091151041	-	-	-	-
EDC	US25490K2814	-	-	-	-
EDIT	US28106W1036	-	-	-	-
EDU	US6475811070	-	-	-	-

EDV	US9219107094	-	-	-	-
EEFT	US2987361092	-	-	-	-
EEM	US4642872349	-	-	-	-
EEMV	US4642865335	-	-	-	-
EFA	US4642874659	-	-	-	-
EFAV	US46429B6891	-	-	-	-
EFSC	US2937121059	-	-	-	-
EFV	US4642888774	-	-	-	-
EFX	US2944291051	-	-	-	-
EGBN	US2689481065	-	-	-	-
EGHT	US2829141009	-	-	-	-
EGOV	US62914B1008	-	-	-	-
EGP	US2772761019	-	-	-	-
EGRX	US2697961082	-	-	-	-
EHC	US29261A1007	-	-	-	-
EHTH	US28238P1093	-	-	-	-
EIDO	US46429B3096	-	-	-	-
EIG	US2922181043	-	-	-	-
EIX	US2810201077	-	-	-	-
EL	US5184391044	-	-	-	-
ELAN	US28414H1032	-	-	-	-
ELF	US26856L1035	-	-	-	-
ELP	US20441B4077	-	-	-	-
ELS	US29472R1086	-	-	-	-
ELY	US1311931042	-	-	-	-
EMB	US4642882819	-	-	-	-
EME	US29084Q1004	-	-	-	-
EMN	US2774321002	-	-	-	-
EMR	US2910111044	-	-	-	-
ENB	CA29250N1050	-	-	-	-
ENIA	US29274F1049	-	-	-	-
ENLC	US29336T1007	-	-	-	-
ENPH	US29355A1079	-	-	-	-
ENR	US29272W1099	-	-	-	-
ENS	US29275Y1029	-	-	-	-
ENSG	US29358P1012	-	-	-	-
ENTA	US29251M1062	-	-	-	-
ENTG	US29362U1043	-	-	-	-
ENV	US29404K1060	-	-	-	-
ENVA	US29357K1034	-	-	-	-
EOG	US26875P1012	-	-	-	-
EPAM	US29414B1044	-	-	-	-

EPAY	US1013881065	-	-	-	-
EPC	US28035Q1022	-	-	-	-
EPD	US2937921078	-	-	-	-
EPHE	US46429B4086	-	-	-	-
EPI	US97717W4226	-	-	-	-
EPOL	US46429B6065	-	-	-	-
EPP	US4642866655	-	-	-	-
EPR	US26884U1097	-	-	-	-
EPZM	US29428V1044	-	-	-	-
EQC	US2946281027	-	-	-	-
EQIX	US29444U7000	-	-	-	-
EQNR	US29446M1027	-	-	-	-
EQR	US29476L1070	-	-	-	-
EQT	US26884L1098	-	-	-	-
ERF	CA2927661025	-	-	-	-
ERIC	US2948216088	-	-	-	-
ERIE	US29530P1021	-	-	-	-
ERJ	US29082A1079	-	-	-	-
ERUS	US46434G7988	-	-	-	-
ERY	US25460E5548	-	-	-	-
ES	US30040W1080	-	-	-	-
ESE	US2963151046	-	-	-	-
ESGR	BMG3075P1014	-	-	-	-
ESLT	IL0010811243	-	-	-	-
ESNT	BMG3198U1027	-	-	-	-
ESPR	US29664W1053	-	-	-	-
ESRT	US2921041065	-	-	-	-
ESS	US2971781057	-	-	-	-
ET	US29273V1008	-	-	-	-
ETFC	US2692464017	-	-	-	-
ETH	US2976021046	-	-	-	-
ETM	US2936391000	-	-	-	-
ETN	IE00B8KQN827	-	-	-	-
ETR	US29364G1031	-	-	-	-
ETSY	US29786A1060	-	-	-	-
EUM	US74347R3966	-	-	-	-
EURN	BE0003816338	-	-	-	-
EV	US2782651036	-	-	-	-
EVBG	US29978A1043	-	-	-	-
EVH	US30050B1017	-	-	-	-
EVR	US29977A1051	-	-	-	-
EVRG	US30034W1062	-	-	-	-

EVRI	US30034T1034	-	-	-	-
EVTC	PR30040P1032	-	-	-	-
EW	US28176E1082	-	-	-	-
EWA	US4642861037	-	-	-	-
EWBC	US27579R1041	-	-	-	-
EWC	US4642865095	-	-	-	-
EWD	US4642867562	-	-	-	-
EWG	US4642868065	-	-	-	-
EWH	US4642868719	-	-	-	-
EWI	US46434G8309	-	-	-	-
EWJ	US46434G8226	-	-	-	-
EWL	US4642867497	-	-	-	-
EWM	US46434G8143	-	-	-	-
EWN	US4642868149	-	-	-	-
EWP	US4642867646	-	-	-	-
EWQ	US4642867075	-	-	-	-
EWS	US46434G7806	-	-	-	-
EWT	US46434G7723	-	-	-	-
EWU	US46435G3341	-	-	-	-
EWV	US4642868222	-	-	-	-
EWY	US4642867729	-	-	-	-
EWZ	US4642864007	-	-	-	-
EXAS	US30063P1057	-	-	-	-
EXC	US30161N1019	-	-	-	-
EXEL	US30161Q1040	-	-	-	-
EXLS	US3020811044	-	-	-	-
EXP	US26969P1084	-	-	-	-
EXPD	US3021301094	-	-	-	-
EXPE	US30212P3038	-	-	-	-
EXPO	US30214U1025	-	-	-	-
EXR	US30225T1025	-	-	-	-
EXTR	US30226D1063	-	-	-	-
EYE	US63845R1077	-	-	-	-
EZA	US4642867802	-	-	-	-
EZU	US4642866085	-	-	-	-
F	US3453708600	-	-	-	-
FAF	US31847R1023	-	-	-	-
FANG	US25278X1090	-	-	-	-
FANH	US30712A1034	-	-	-	-
FARO	US3116421021	-	-	-	-
FAS	US25459Y6941	-	-	-	-
FAST	US3119001044	-	-	-	-

FATE	US31189P1021	-	-	-	-
FB	US30303M1027	-	-	-	-
FBHS	US34964C1062	-	-	-	-
FBP	PR3186727065	-	-	-	-
FCF	US3198291078	-	-	-	-
FCFS	US33767D1054	-	-	-	-
FCN	US3029411093	-	-	-	-
FCNCA	US31946M1036	-	-	-	-
FCPT	US35086T1097	-	-	-	-
FCX	US35671D8570	-	-	-	-
FDN	US33733E3027	-	-	-	-
FDP	KYG367381053	-	-	-	-
FDS	US3030751057	-	-	-	-
FDX	US31428X1063	-	-	-	-
FE	US3379321074	-	-	-	-
FELE	US3535141028	-	-	-	-
FEYE	US31816Q1013	-	-	-	-
FEZ	US78463X2027	-	-	-	-
FFBC	US3202091092	-	-	-	-
FFIN	US32020R1095	-	-	-	-
FFIV	US3156161024	-	-	-	-
FGEN	US31572Q8087	-	-	-	-
FHB	US32051X1081	-	-	-	-
FHI	US3142111034	-	-	-	-
FHN	US3205171057	-	-	-	-
FI	NL0010556684	-	-	-	-
FIBK	US32055Y2019	-	-	-	-
FICO	US3032501047	-	-	-	-
FIS	US31620M1062	-	-	-	-
FISV	US3377381088	-	-	-	-
FIT	US33812L1026	-	-	-	-
FITB	US3167731005	-	-	-	-
FIVE	US33829M1018	-	-	-	-
FIVE	US98387E2054	-	-	-	-
FIVN	US3383071012	-	-	-	-
FIX	US1999081045	-	-	-	-
FIXX	US4380831077	-	-	-	-
FIZZ	US6350171061	-	-	-	-
FL	US3448491049	-	-	-	-
FLIR	US3024451011	-	-	-	-
FLO	US3434981011	-	-	-	-
FLOT	US46429B6552	-	-	-	-

FLOW	US78469X1072	-	-	-	-
FLR	US3434121022	-	-	-	-
FLS	US34354P1057	-	-	-	-
FLT	US3390411052	-	-	-	-
FLWS	US68243Q1067	-	-	-	-
FMBI	US3208671046	-	-	-	-
FMC	US3024913036	-	-	-	-
FMS	US3580291066	-	-	-	-
FMX	US3444191064	-	-	-	-
FN	KYG3323L1005	-	-	-	-
FNB	US3025201019	-	-	-	-
FND	US3397501012	-	-	-	-
FNF	US31620R3030	-	-	-	-
FNKO	US3610081057	-	-	-	-
FNV	CA3518581051	-	-	-	-
FOE	US3154051003	-	-	-	-
FOLD	US03152W1099	-	-	-	-
FOXF	US35138V1026	-	-	-	-
FPE	US33739E1082	-	-	-	-
FR	US32054K1034	-	-	-	-
FRC	US33616C1009	-	-	-	-
FRHC	US3563901046	-	-	-	-
FRME	US3208171096	-	-	-	-
FRPT	US3580391056	-	-	-	-
FRT	US3137472060	-	-	-	-
FSLR	US3364331070	-	-	-	-
FSM	CA3499151080	-	-	-	-
FSS	US3138551086	-	-	-	-
FTEC	US3160928087	-	-	-	-
FTI	GB00BDSFG982	-	-	-	-
FTNT	US34959E1091	-	-	-	-
FTS	CA3495531079	-	-	-	-
FTV	US34959J1088	-	-	-	-
FUL	US3596941068	-	-	-	-
FULT	US3602711000	-	-	-	-
FUN	US1501851067	-	-	-	-
FVD	US33734H1068	-	-	-	-
FWRD	US3498531017	-	-	-	-
FXI	US4642871846	-	-	-	-
FXL	US33734X1761	-	-	-	-
G	BMG3922B1072	-	-	-	-
GATX	US3614481030	-	-	-	-

GAZ	US36829G1076	-	-	-	-
GBCI	US37637Q1058	-	-	-	-
GBT	US37890U1088	-	-	-	-
GCO	US3715321028	-	-	-	-
GCP	US36164Y1010	-	-	-	-
GD	US3695501086	-	-	-	-
GDDY	US3802371076	-	-	-	-
GDOT	US39304D1028	-	-	-	-
GDS	US36165L1089	-	-	-	-
GDX	US92189F1066	-	-	-	-
GDXJ	US92189F7915	-	-	-	-
GE	US3696043013	-	-	-	-
GEF	US3976241071	-	-	-	-
GEL	US3719271047	-	-	-	-
GEO	US36162J1060	-	-	-	-
GES	US4016171054	-	-	-	-
GFI	US38059T1060	-	-	-	-
GGAL	US3999091008	-	-	-	-
GGB	US3737371050	-	-	-	-
GGG	US3841091040	-	-	-	-
GHC	US3846371041	-	-	-	-
GIII	US36237H1014	-	-	-	-
GIL	CA3759161035	-	-	-	-
GILD	US3755581036	-	-	-	-
GIS	US3703341046	-	-	-	-
GKOS	US3773221029	-	-	-	-
GL	US37959E1029	-	-	-	-
GLD	US78463V1070	-	-	-	-
GLIBA	US36164V3050	-	-	-	-
GLNG	BMG9456A1009	-	-	-	-
GLOB	LU0974299876	-	-	-	-
GLPG	US36315X1019	-	-	-	-
GLPI	US36467J1088	-	-	-	-
GLTR	US37949E2046	-	-	-	-
GLUU	US3798901068	-	-	-	-
GLW	US2193501051	-	-	-	-
GLYC	US38000Q1022	-	-	-	-
GM	US37045V1008	-	-	-	-
GMED	US3795772082	-	-	-	-
GMS	US36251C1036	-	-	-	-
GNL	US3793782018	-	-	-	-
GNRC	US3687361044	-	-	-	-

GNTX	US3719011096	-	-	-	-
GNW	US37247D1063	-	-	-	-
GOL	US38045R2067	-	-	-	-
GOLD	CA0679011084	-	-	-	-
GOOG	US02079K1079	-	-	-	-
GOOGL	US02079K3059	-	-	-	-
GOOS	CA1350861060	-	-	-	-
GOVT	US46429B2676	-	-	-	-
GPC	US3724601055	-	-	-	-
GPI	US3989051095	-	-	-	-
GPK	US3886891015	-	-	-	-
GPMT	US38741L1070	-	-	-	-
GPN	US37940X1028	-	-	-	-
GPRO	US38268T1034	-	-	-	-
GPS	US3647601083	-	-	-	-
GRA	US38388F1084	-	-	-	-
GRFS	US3984384087	-	-	-	-
GRMN	CH0114405324	-	-	-	-
GRUB	US4001101025	-	-	-	-
GS	US38141G1040	-	-	-	-
GSK	US37733W1053	-	-	-	-
GT	US3825501014	-	-	-	-
GTES	GB00BD9G2S12	-	-	-	-
GTHX	US3621LQ1099	-	-	-	-
GTLS	US16115Q3083	-	-	-	-
GTN	US3893751061	-	-	-	-
GTT	US3623931009	-	-	-	-
GVA	US3873281071	-	-	-	-
GWB	US3914161043	-	-	-	-
GWPH	US36197T1034	-	-	-	-
GWRE	US40171V1008	-	-	-	-
GWW	US3848021040	-	-	-	-
H	US4485791028	-	-	-	-
HA	US4198791018	-	-	-	-
HAE	US4050241003	-	-	-	-
HAIN	US4052171000	-	-	-	-
HAL	US4062161017	-	-	-	-
HALO	US40637H1095	-	-	-	-
HAS	US4180561072	-	-	-	-
HASI	US41068X1000	-	-	-	-
HBAN	US4461501045	-	-	-	-
HBI	US4103451021	-	-	-	-

HBM	CA4436281022	-	-	-	-
HCA	US40412C1018	-	-	-	-
HCC	US93627C1018	-	-	-	-
HCM	US44842L1035	-	-	-	-
HCSG	US4219061086	-	-	-	-
HD	US4370761029	-	-	-	-
HDB	US40415F1012	-	-	-	-
HDS	US40416M1053	-	-	-	-
HDV	US46429B6636	-	-	-	-
HE	US4198701009	-	-	-	-
HEDJ	US97717X7012	-	-	-	-
HEES	US4040301081	-	-	-	-
HEFA	US46434V8037	-	-	-	-
HEI	US4228061093	-	-	-	-
HELE	BMG4388N1065	-	-	-	-
HES	US42809H1077	-	-	-	-
HFC	US4361061082	-	-	-	-
HGV	US43283X1054	-	-	-	-
HHC	US44267D1072	-	-	-	-
HI	US4315711089	-	-	-	-
HIG	US4165151048	-	-	-	-
HII	US4464131063	-	-	-	-
HIW	US4312841087	-	-	-	-
HL	US4227041062	-	-	-	-
HLF	KYG4412G1010	-	-	-	-
HLI	US4415931009	-	-	-	-
HLNE	US4074971064	-	-	-	-
HLT	US43300A2033	-	-	-	-
HLX	US42330P1075	-	-	-	-
HMC	US4381283088	-	-	-	-
HMN	US4403271046	-	-	-	-
HMSY	US40425J1016	-	-	-	-
HMY	US4132163001	-	-	-	-
HNI	US4042511000	-	-	-	-
HOG	US4128221086	-	-	-	-
HOLX	US4364401012	-	-	-	-
HOMB	US4368932004	-	-	-	-
HON	US4385161066	-	-	-	-
HOPE	US43940T1097	-	-	-	-
HP	US4234521015	-	-	-	-
HPE	US42824C1099	-	-	-	-
HPP	US4440971095	-	-	-	-

HPQ	US40434L1052	-	-	-	-
HQY	US42226A1079	-	-	-	-
HR	US4219461047	-	-	-	-
HRB	US0936711052	-	-	-	-
HRC	US4314751029	-	-	-	-
HRI	US42704L1044	-	-	-	-
HRL	US4404521001	-	-	-	-
HRTX	US4277461020	-	-	-	-
HSBC	US4042804066	-	-	-	-
HSC	US4158641070	-	-	-	-
HSIC	US8064071025	-	-	-	-
HSKA	US42805E3062	-	-	-	-
HST	US44107P1049	-	-	-	-
HSY	US4278661081	-	-	-	-
HT	US4278255009	-	-	-	-
HTA	US42225P5017	-	-	-	-
HTH	US4327481010	-	-	-	-
HTHT	US44332N1063	-	-	-	-
HTLD	US4223471040	-	-	-	-
HTLF	US42234Q1022	-	-	-	-
HUBB	US4435106079	-	-	-	-
HUBG	US4433201062	-	-	-	-
HUBS	US4435731009	-	-	-	-
HUM	US4448591028	-	-	-	-
HUN	US4470111075	-	-	-	-
HWC	US4101201097	-	-	-	-
HWM	US4432011082	-	-	-	-
HXL	US4282911084	-	-	-	-
HYG	US4642885135	-	-	-	-
HYS	US72201R7834	-	-	-	-
HZNP	IE00BQPVQZ61	-	-	-	-
IAG	CA4509131088	-	-	-	-
IART	US4579852082	-	-	-	-
IAT	US4642887784	-	-	-	-
IAU	US4642851053	-	-	-	-
IBB	US4642875565	-	-	-	-
IBKR	US45841N1072	-	-	-	-
IBM	US4592001014	-	-	-	-
IBN	US45104G1040	-	-	-	-
IBOC	US4590441030	-	-	-	-
IBP	US45780R1014	-	-	-	-
IBTX	US45384B1061	-	-	-	-

ICE	US45866F1049	-	-	-	-
ICFI	US44925C1036	-	-	-	-
ICHR	KYG4740B1059	-	-	-	-
ICLR	IE0005711209	-	-	-	-
ICPT	US45845P1084	-	-	-	-
ICUI	US44930G1076	-	-	-	-
IDA	US4511071064	-	-	-	-
IDCC	US45867G1013	-	-	-	-
IDU	US4642876977	-	-	-	-
IDXX	US45168D1046	-	-	-	-
IEF	US4642874402	-	-	-	-
IEFA	US46432F8427	-	-	-	-
IEI	US4642886612	-	-	-	-
IEMG	US46434G1031	-	-	-	-
IEUR	US46434V7385	-	-	-	-
IEV	US4642878619	-	-	-	-
IEX	US45167R1041	-	-	-	-
IFF	US4595061015	-	-	-	-
IGF	US4642883726	-	-	-	-
IGIB	US4642886380	-	-	-	-
IGLB	US4642895118	-	-	-	-
IGM	US4642875490	-	-	-	-
IGOV	US4642881175	-	-	-	-
IGSB	US4642886463	-	-	-	-
IGT	GB00BVG7F061	-	-	-	-
IGV	US4642875151	-	-	-	-
IHF	US4642888287	-	-	-	-
IHI	US4642888105	-	-	-	-
IIVI	US9021041085	-	-	-	-
IJH	US4642875078	-	-	-	-
IJJ	US4642877058	-	-	-	-
IJK	US4642876068	-	-	-	-
IJR	US4642878049	-	-	-	-
IJS	US4642878791	-	-	-	-
IJT	US4642878874	-	-	-	-
ILF	US4642873909	-	-	-	-
ILMN	US4523271090	-	-	-	-
ILPT	US4562371066	-	-	-	-
IMAX	CA45245E1097	-	-	-	-
IMMU	US4529071080	-	-	-	-
IMO	CA4530384086	-	-	-	-
INCY	US45337C1027	-	-	-	-

INDA	US46429B5984	-	-	-	-
INDB	US4538361084	-	-	-	-
INFO	BMG475671050	-	-	-	-
INFY	US4567881085	-	-	-	-
ING	US4568371037	-	-	-	-
INGN	US45780L1044	-	-	-	-
INGR	US4571871023	-	-	-	-
INN	US8660821005	-	-	-	-
INSM	US4576693075	-	-	-	-
INT	US9814751064	-	-	-	-
INTC	US4581401001	-	-	-	-
INTU	US4612021034	-	-	-	-
INVA	US45781M1018	-	-	-	-
INVH	US46187W1071	-	-	-	-
IONS	US4622221004	-	-	-	-
IOSP	US45768S1050	-	-	-	-
IOVA	US4622601007	-	-	-	-
IP	US4601461035	-	-	-	-
IPAR	US4583341098	-	-	-	-
IPG	US4606901001	-	-	-	-
IPGP	US44980X1090	-	-	-	-
IPHI	US45772F1075	-	-	-	-
IQ	US46267X1081	-	-	-	-
IQV	US46266C1053	-	-	-	-
IR	US45687V1061	-	-	-	-
IRBT	US4627261005	-	-	-	-
IRDM	US46269C1027	-	-	-	-
IRM	US46284V1017	-	-	-	-
IRT	US45378A1060	-	-	-	-
IRTC	US4500561067	-	-	-	-
IRWD	US46333X1081	-	-	-	-
ISBC	US46146L1017	-	-	-	-
ISRG	US46120E6023	-	-	-	-
IT	US3666511072	-	-	-	-
ITA	US4642887602	-	-	-	-
ITB	US4642887529	-	-	-	-
ITGR	US45826H1095	-	-	-	-
ITOT	US4642871507	-	-	-	-
ITRI	US4657411066	-	-	-	-
ITT	US45073V1089	-	-	-	-
ITUB	US4655621062	-	-	-	-
ITW	US4523081093	-	-	-	-

IUSG	US4642876712	-	-	-	-
IUSV	US4642876639	-	-	-	-
IVE	US4642874089	-	-	-	-
IVR	US46131B1008	-	-	-	-
IVV	US4642872000	-	-	-	-
IVW	US4642873099	-	-	-	-
IVZ	BMG491BT1088	-	-	-	-
IWB	US4642876225	-	-	-	-
IWD	US4642875987	-	-	-	-
IWF	US4642876142	-	-	-	-
IWM	US4642876555	-	-	-	-
IWN	US4642876308	-	-	-	-
IWO	US4642876480	-	-	-	-
IWP	US4642874816	-	-	-	-
IWR	US4642874998	-	-	-	-
IWS	US4642874733	-	-	-	-
IWV	US4642876894	-	-	-	-
IXUS	US46432F8344	-	-	-	-
IYF	US4642877884	-	-	-	-
IYG	US4642877702	-	-	-	-
IYH	US4642877629	-	-	-	-
IYR	US4642877397	-	-	-	-
IYT	US4642871929	-	-	-	-
IYW	US4642877215	-	-	-	-
IYZ	US4642877132	-	-	-	-
J	US4698141078	-	-	-	-
JACK	US4663671091	-	-	-	-
JAZZ	IE00B4Q5ZN47	-	-	-	-
JBGS	US46590V1008	-	-	-	-
JBHT	US4456581077	-	-	-	-
JBL	US4663131039	-	-	-	-
JBLU	US4771431016	-	-	-	-
JBSS	US8004221078	-	-	-	-
JBT	US4778391049	-	-	-	-
JCI	IE00BY7QL619	-	-	-	-
JCOM	US48123V1026	-	-	-	-
JD	US47215P1066	-	-	-	-
JEF	US47233W1099	-	-	-	-
JELD	US47580P1030	-	-	-	-
JHG	JE00BYPZJM29	-	-	-	-
JJSF	US4660321096	-	-	-	-
JKHY	US4262811015	-	-	-	-

JKS	US47759T1007	-	-	-	-
JLL	US48020Q1076	-	-	-	-
JNJ	US4781601046	-	-	-	-
JNPR	US48203R1041	-	-	-	-
JNUG	US25460G8318	-	-	-	-
JO	US06746P5632	-	-	-	-
JOBS	US3168271043	-	-	-	-
JPM	US46625H1005	-	-	-	-
JRVR	BMG5005R1079	-	-	-	-
JWN	US6556641008	-	-	-	-
K	US4878361082	-	-	-	-
KAI	US48282T1043	-	-	-	-
KALU	US4830077040	-	-	-	-
KAMN	US4835481031	-	-	-	-
KAR	US48238T1097	-	-	-	-
KBE	US78464A7972	-	-	-	-
KBH	US48666K1097	-	-	-	-
KBR	US48242W1062	-	-	-	-
KDP	US49271V1008	-	-	-	-
KEP	US5006311063	-	-	-	-
KEX	US4972661064	-	-	-	-
KEY	US4932671088	-	-	-	-
KEYS	US49338L1035	-	-	-	-
KFY	US5006432000	-	-	-	-
KGC	CA4969024047	-	-	-	-
KHC	US5007541064	-	-	-	-
KIE	US78464A7899	-	-	-	-
KIM	US49446R1095	-	-	-	-
KL	CA49741E1007	-	-	-	-
KLAC	US4824801009	-	-	-	-
KLIC	US5012421013	-	-	-	-
KMB	US4943681035	-	-	-	-
KMI	US49456B1017	-	-	-	-
KMPR	US4884011002	-	-	-	-
KMT	US4891701009	-	-	-	-
KMX	US1431301027	-	-	-	-
KN	US49926D1090	-	-	-	-
KNL	US4989042001	-	-	-	-
KNSL	US49714P1084	-	-	-	-
KNX	US4990491049	-	-	-	-
KO	US1912161007	-	-	-	-
KR	US5010441013	-	-	-	-

KRA	US50077C1062	-	-	-	-
KRC	US49427F1084	-	-	-	-
KRE	US78464A6982	-	-	-	-
KRG	US49803T3005	-	-	-	-
KRNT	IL0011216723	-	-	-	-
KSS	US5002551043	-	-	-	-
KSU	US4851703029	-	-	-	-
KT	US48268K1016	-	-	-	-
KTOS	US50077B2079	-	-	-	-
KURA	US50127T1097	-	-	-	-
KWR	US7473161070	-	-	-	-
KYN	US4866061066	-	-	-	-
L	US5404241086	-	-	-	-
LABD	US25460E5399	-	-	-	-
LABU	US25490K3234	-	-	-	-
LAD	US5367971034	-	-	-	-
LAMR	US5128161099	-	-	-	-
LANC	US5138471033	-	-	-	-
LAUR	US5186132032	-	-	-	-
LAZ	BMG540501027	-	-	-	-
LB	US5017971046	-	-	-	-
LBRDA	US5303071071	-	-	-	-
LBRDK	US5303073051	-	-	-	-
LBRT	US53115L1044	-	-	-	-
LBTYA	GB00B8W67662	-	-	-	-
LBTYK	GB00B8W67B19	-	-	-	-
LCII	US50189K1034	-	-	-	-
LDOS	US5253271028	-	-	-	-
LEA	US5218652049	-	-	-	-
LECO	US5339001068	-	-	-	-
LEG	US5246601075	-	-	-	-
LEN	US5260571048	-	-	-	-
LFC	US16939P1066	-	-	-	-
LFUS	US5370081045	-	-	-	-
LGFa	CA5359194019	-	-	-	-
LGFb	CA5359195008	-	-	-	-
LGIH	US50187T1060	-	-	-	-
LGND	US53220K5048	-	-	-	-
LH	US50540R4092	-	-	-	-
LHCG	US50187A1079	-	-	-	-
LHX	US5024311095	-	-	-	-
LII	US5261071071	-	-	-	-

LILA	BMG9001E1021	-	-	-	-
LILAK	BMG9001E1286	-	-	-	-
LIN	IE00BZ12WP82	-	-	-	-
LITE	US55024U1097	-	-	-	-
LIVN	GB00BYMT0J19	-	-	-	-
LKOD	US69343P1057	-	-	-	-
LKQ	US5018892084	-	-	-	-
LLY	US5324571083	-	-	-	-
LMNX	US55027E1029	-	-	-	-
LMT	US5398301094	-	-	-	-
LNC	US5341871094	-	-	-	-
LNG	US16411R2085	-	-	-	-
LNN	US5355551061	-	-	-	-
LNT	US0188021085	-	-	-	-
LNTA	US52634T2006	-	-	-	-
LNTH	US5165441032	-	-	-	-
LOGI	CH0025751329	-	-	-	-
LOGM	US54142L1098	-	-	-	-
LOPE	US38526M1062	-	-	-	-
LOW	US5486611073	-	-	-	-
LPL	US50186V1026	-	-	-	-
LPLA	US50212V1008	-	-	-	-
LPSN	US5381461012	-	-	-	-
LPX	US5463471053	-	-	-	-
LQD	US4642872422	-	-	-	-
LRCX	US5128071082	-	-	-	-
LRN	US48273U1025	-	-	-	-
LSCC	US5184151042	-	-	-	-
LSI	US53223X1072	-	-	-	-
LSTR	US5150981018	-	-	-	-
LSXMA	US5312294094	-	-	-	-
LSXMK	US5312296073	-	-	-	-
LTC	US5021751020	-	-	-	-
LTOD	USY5217N1183	-	-	-	-
LTRPA	US5314651028	-	-	-	-
LULU	US5500211090	-	-	-	-
LUV	US8447411088	-	-	-	-
LVS	US5178341070	-	-	-	-
LW	US5132721045	-	-	-	-
LX	US5288771034	-	-	-	-
LXP	US5290431015	-	-	-	-
LYB	NL0009434992	-	-	-	-

LYFT	US55087P1049	-	-	-	-
LYV	US5380341090	-	-	-	-
LZB	US5053361078	-	-	-	-
M	US55616P1049	-	-	-	-
MA	US57636Q1040	-	-	-	-
MAA	US59522J1034	-	-	-	-
MAC	US5543821012	-	-	-	-
MAG	CA55903Q1046	-	-	-	-
MAIL	US5603172082	-	-	-	-
MAIN	US56035L1044	-	-	-	-
MAN	US56418H1005	-	-	-	-
MANH	US5627501092	-	-	-	-
MANT	US5645631046	-	-	-	-
MAR	US5719032022	-	-	-	-
MAS	US5745991068	-	-	-	-
MASI	US5747951003	-	-	-	-
MAT	US5770811025	-	-	-	-
MATW	US5771281012	-	-	-	-
MATX	US57686G1058	-	-	-	-
MBB	US4642885887	-	-	-	-
MBT	US6074091090	-	-	-	-
MBUU	US56117J1007	-	-	-	-
MC	US60786M1053	-	-	-	-
MCD	US5801351017	-	-	-	-
MCHI	US46429B6719	-	-	-	-
MCHP	US5950171042	-	-	-	-
MCK	US58155Q1031	-	-	-	-
MCO	US6153691059	-	-	-	-
MCS	US5663301068	-	-	-	-
MCY	US5894001008	-	-	-	-
MD	US58502B1061	-	-	-	-
MDB	US60937P1066	-	-	-	-
MDC	US5526761086	-	-	-	-
MDLZ	US6092071058	-	-	-	-
MDP	US5894331017	-	-	-	-
MDRX	US01988P1084	-	-	-	-
MDT	IE00BTN1Y115	-	-	-	-
MDU	US5526901096	-	-	-	-
MDY	US78467Y1073	-	-	-	-
MED	US58470H1014	-	-	-	-
MEDP	US58506Q1094	-	-	-	-
MEI	US5915202007	-	-	-	-

MELI	US58733R1023	-	-	-	-
MEOH	CA59151K1084	-	-	-	-
MET	US59156R1086	-	-	-	-
MFC	CA56501R1064	-	-	-	-
MGA	CA5592224011	-	-	-	-
MGEE	US55277P1049	-	-	-	-
MGK	US9219108167	-	-	-	-
MGLN	US5590792074	-	-	-	-
MGM	US5529531015	-	-	-	-
MGNT	US55953Q2021	-	-	-	-
MGP	US55303A1051	-	-	-	-
MGPI	US55303J1060	-	-	-	-
MGRC	US5805891091	-	-	-	-
MHK	US6081901042	-	-	-	-
MIC	US55608B1052	-	-	-	-
MIDD	US5962781010	-	-	-	-
MIK	US59408Q1067	-	-	-	-
MIME	GB00BYT5JK65	-	-	-	-
MINT	US72201R8337	-	-	-	-
MKC	US5797802064	-	-	-	-
MKL	US5705351048	-	-	-	-
MKSI	US55306N1046	-	-	-	-
MKTX	US57060D1081	-	-	-	-
MLAB	US59064R1095	-	-	-	-
MLCO	US5854641009	-	-	-	-
MLHR	US6005441000	-	-	-	-
MLI	US6247561029	-	-	-	-
MLM	US5732841060	-	-	-	-
MMC	US5717481023	-	-	-	-
MMI	US5663241090	-	-	-	-
MMK	US5591892048	-	-	-	-
MMM	US88579Y1010	-	-	-	-
MMP	US5590801065	-	-	-	-
MMS	US5779331041	-	-	-	-
MMSI	US5898891040	-	-	-	-
MMYT	MU0295S00016	-	-	-	-
MNK	IE00BBGT3753	-	-	-	-
MNOD	US55315J1025	-	-	-	-
MNR	US6097201072	-	-	-	-
MNRO	US6102361010	-	-	-	-
MNST	US61174X1090	-	-	-	-
MNTA	US60877T1007	-	-	-	-

MO	US02209S1033	-	-	-	-
MOAT	US92189F6438	-	-	-	-
MOBL	US60739U2042	-	-	-	-
MODN	US6075251024	-	-	-	-
MOH	US60855R1005	-	-	-	-
MOMO	US4234031049	-	-	-	-
MOO	US92189F7006	-	-	-	-
MORN	US6177001095	-	-	-	-
MOS	US61945C1036	-	-	-	-
MPC	US56585A1025	-	-	-	-
MPLX	US55336V1008	-	-	-	-
MPW	US58463J3041	-	-	-	-
MPWR	US6098391054	-	-	-	-
MRC	US55345K1034	-	-	-	-
MRCY	US5893781089	-	-	-	-
MRK	US58933Y1055	-	-	-	-
MRNA	US60770K1079	-	-	-	-
MRO	US5658491064	-	-	-	-
MRTX	US60468T1051	-	-	-	-
MRVL	BMG5876H1051	-	-	-	-
MS	US6174464486	-	-	-	-
MSA	US5534981064	-	-	-	-
MSCI	US55354G1004	-	-	-	-
MSFT	US5949181045	-	-	-	-
MSGN	US5535731062	-	-	-	-
MSGS	US55825T1034	-	-	-	-
MSI	US6200763075	-	-	-	-
MSM	US5535301064	-	-	-	-
MSTR	US5949724083	-	-	-	-
MT	US03938L2034	-	-	-	-
MTB	US55261F1049	-	-	-	-
MTCH	US57667L1070	-	-	-	-
MTD	US5926881054	-	-	-	-
MTG	US5528481030	-	-	-	-
MTH	US59001A1025	-	-	-	-
MTN	US91879Q1094	-	-	-	-
MTOR	US59001K1007	-	-	-	-
MTRN	US5766901012	-	-	-	-
MTSC	US5537771033	-	-	-	-
MTSI	US55405Y1001	-	-	-	-
MTUM	US46432F3964	-	-	-	-
MTX	US6031581068	-	-	-	-

MTZ	US5763231090	-	-	-	-
MU	US5951121038	-	-	-	-
MUB	US4642884146	-	-	-	-
MUR	US6267171022	-	-	-	-
MUSA	US6267551025	-	-	-	-
MWA	US6247581084	-	-	-	-
MXIM	US57772K1016	-	-	-	-
MXL	US57776J1007	-	-	-	-
MYGN	US62855J1043	-	-	-	-
MYL	NL0011031208	-	-	-	-
MYOK	US62857M1053	-	-	-	-
NATI	US6365181022	-	-	-	-
NAV	US63934E1082	-	-	-	-
NAVI	US63938C1080	-	-	-	-
NBHC	US6337071046	-	-	-	-
NBIX	US64125C1099	-	-	-	-
NBL	US6550441058	-	-	-	-
NBTB	US6287781024	-	-	-	-
NCLH	BMG667211046	-	-	-	-
NCR	US62886E1082	-	-	-	-
NDAQ	US6311031081	-	-	-	-
NDSN	US6556631025	-	-	-	-
NEAR	US46431W5076	-	-	-	-
NEE	US65339F1012	-	-	-	-
NEM	US6516391066	-	-	-	-
NEO	US64049M2098	-	-	-	-
NEOG	US6404911066	-	-	-	-
NEP	US65341B1061	-	-	-	-
NET	US18915M1071	-	-	-	-
NEU	US6515871076	-	-	-	-
NEWR	US64829B1008	-	-	-	-
NFG	US6361801011	-	-	-	-
NFLX	US64110L1061	-	-	-	-
NG	CA66987E2069	-	-	-	-
NGD	CA6445351068	-	-	-	-
NGG	US6362744095	-	-	-	-
NGL	US62913M1071	-	-	-	-
NGVT	US45688C1071	-	-	-	-
NHI	US63633D1046	-	-	-	-
NI	US65473P1057	-	-	-	-
NICE	US6536561086	-	-	-	-
NJR	US6460251068	-	-	-	-

NKE	US6541061031	-	-	-	-
NKTR	US6402681083	-	-	-	-
NLMK	US67011E2046	-	-	-	-
NLOK	US6687711084	-	-	-	-
NLSN	GB00BWFY5505	-	-	-	-
NLY	US0357104092	-	-	-	-
NMIH	US6292093050	-	-	-	-
NMRK	US65158N1028	-	-	-	-
NNN	US6374171063	-	-	-	-
NOAH	US65487X1028	-	-	-	-
NOBL	US74348A4673	-	-	-	-
NOC	US6668071029	-	-	-	-
NOK	US6549022043	-	-	-	-
NOMD	VGG6564A1057	-	-	-	-
NOV	US6370711011	-	-	-	-
NOVT	CA67000B1040	-	-	-	-
NOW	US81762P1021	-	-	-	-
NPK	US6372151042	-	-	-	-
NPO	US29355X1072	-	-	-	-
NRG	US6293775085	-	-	-	-
NS	US67058H1023	-	-	-	-
NSA	US6378701063	-	-	-	-
NSC	US6558441084	-	-	-	-
NSIT	US45765U1034	-	-	-	-
NSP	US45778Q1076	-	-	-	-
NTAP	US64110D1046	-	-	-	-
NTB	BMG0772R2087	-	-	-	-
NTCT	US64115T1043	-	-	-	-
NTES	US64110W1027	-	-	-	-
NTGR	US64111Q1040	-	-	-	-
NTLA	US45826J1051	-	-	-	-
NTNX	US67059N1081	-	-	-	-
NTR	CA67077M1086	-	-	-	-
NTRA	US6323071042	-	-	-	-
NTRS	US6658591044	-	-	-	-
NUAN	US67020Y1001	-	-	-	-
NUE	US6703461052	-	-	-	-
NUGT	US25460G7815	-	-	-	-
NUS	US67018T1051	-	-	-	-
NUVA	US6707041058	-	-	-	-
NVCR	JE00BYSS4X48	-	-	-	-
NVDA	US67066G1040	-	-	-	-

NVEE	US62945V1098	-	-	-	-
NVO	US6701002056	-	-	-	-
NVR	US62944T1051	-	-	-	-
NVRO	US64157F1030	-	-	-	-
NVS	US66987V1098	-	-	-	-
NVTK	US6698881090	-	-	-	-
NWBI	US6673401039	-	-	-	-
NWE	US6680743050	-	-	-	-
NWL	US6512291062	-	-	-	-
NWS	US65249B2088	-	-	-	-
NWSA	US65249B1098	-	-	-	-
NXPI	NL0009538784	-	-	-	-
NXRT	US65341D1028	-	-	-	-
NXST	US65336K1034	-	-	-	-
NYCB	US6494451031	-	-	-	-
NYMT	US6496045013	-	-	-	-
NYT	US6501111073	-	-	-	-
O	US7561091049	-	-	-	-
OC	US6907421019	-	-	-	-
ODFL	US6795801009	-	-	-	-
OEC	LU1092234845	-	-	-	-
OEF	US4642871010	-	-	-	-
OFC	US22002T1088	-	-	-	-
OFG	PR67103X1020	-	-	-	-
OGE	US6708371033	-	-	-	-
OGS	US68235P1084	-	-	-	-
OGZD	US3682872078	-	-	-	-
OHI	US6819361006	-	-	-	-
OI	US67098H1041	-	-	-	-
OII	US6752321025	-	-	-	-
OIS	US6780261052	-	-	-	-
OKE	US6826801036	-	-	-	-
OKTA	US6792951054	-	-	-	-
OLED	US91347P1057	-	-	-	-
OLLI	US6811161099	-	-	-	-
OLN	US6806652052	-	-	-	-
OMC	US6819191064	-	-	-	-
OMCL	US68213N1090	-	-	-	-
OMF	US68268W1036	-	-	-	-
ON	US6821891057	-	-	-	-
ONB	US6800331075	-	-	-	-
OPI	US67623C1099	-	-	-	-

OPK	US68375N1037	-	-	-	-
ORA	US6866881021	-	-	-	-
ORAN	US6840601065	-	-	-	-
ORCL	US68389X1054	-	-	-	-
ORI	US6802231042	-	-	-	-
ORLY	US67103H1077	-	-	-	-
OSB	CA65548P4033	-	-	-	-
OSIS	US6710441055	-	-	-	-
OSK	US6882392011	-	-	-	-
OTEX	CA6837151068	-	-	-	-
OTTR	US6896481032	-	-	-	-
OUT	US69007J1060	-	-	-	-
OXM	US6914973093	-	-	-	-
OXY	US6745991058	-	-	-	-
PAA	US7265031051	-	-	-	-
PAAS	CA6979001089	-	-	-	-
PACW	US6952631033	-	-	-	-
PAG	US70959W1036	-	-	-	-
PAGP	US72651A2078	-	-	-	-
PAGS	KYG687071012	-	-	-	-
PALL	US0032621023	-	-	-	-
PAM	US6976602077	-	-	-	-
PANW	US6974351057	-	-	-	-
PARR	US69888T2078	-	-	-	-
PATK	US7033431039	-	-	-	-
PAYC	US70432V1026	-	-	-	-
PAYX	US7043261079	-	-	-	-
PB	US7436061052	-	-	-	-
PBA	CA7063271034	-	-	-	-
PBCT	US7127041058	-	-	-	-
PBF	US69318G1067	-	-	-	-
PBH	US74112D1019	-	-	-	-
PBR	US71654V4086	-	-	-	-
PCAR	US6937181088	-	-	-	-
PCG	US69331C1080	-	-	-	-
PCH	US7376301039	-	-	-	-
PCI	US72202D1063	-	-	-	-
PCRX	US6951271005	-	-	-	-
PCTY	US70438V1061	-	-	-	-
PDCE	US69327R1014	-	-	-	-
PDCO	US7033951036	-	-	-	-
PDD	US7223041028	-	-	-	-

PDI	US72201Y1010	-	-	-	-
PDM	US7201902068	-	-	-	-
PDS	CA74022D3085	-	-	-	-
PEAK	US42250P1030	-	-	-	-
PEB	US70509V1008	-	-	-	-
PEG	US7445731067	-	-	-	-
PEGA	US7055731035	-	-	-	-
PEN	US70975L1070	-	-	-	-
PENN	US7075691094	-	-	-	-
PEP	US7134481081	-	-	-	-
PETQ	US71639T1060	-	-	-	-
PFE	US7170811035	-	-	-	-
PFF	US4642886877	-	-	-	-
PFG	US74251V1026	-	-	-	-
PFGC	US71377A1034	-	-	-	-
PFPT	US7434241037	-	-	-	-
PFS	US74386T1051	-	-	-	-
PG	US7427181091	-	-	-	-
PGR	US7433151039	-	-	-	-
PGRE	US69924R1086	-	-	-	-
PGTI	US69336V1017	-	-	-	-
PH	US7010941042	-	-	-	-
PHG	US5004723038	-	-	-	-
PHM	US7458671010	-	-	-	-
PHOR	US71922G2093	-	-	-	-
PI	US4532041096	-	-	-	-
PII	US7310681025	-	-	-	-
PINC	US74051N1028	-	-	-	-
PINS	US72352L1061	-	-	-	-
PIPR	US7240781002	-	-	-	-
PJT	US69343T1079	-	-	-	-
PK	US7005171050	-	-	-	-
PKG	US6951561090	-	-	-	-
PKI	US7140461093	-	-	-	-
PKX	US6934831099	-	-	-	-
PLAY	US2383371091	-	-	-	-
PLCE	US1689051076	-	-	-	-
PLD	US74340W1036	-	-	-	-
PLNT	US72703H1014	-	-	-	-
PLT	US7274931085	-	-	-	-
PLUS	US2942681071	-	-	-	-
PLXS	US7291321005	-	-	-	-

PM	US7181721090	-	-	-	-
PNC	US6934751057	-	-	-	-
PNFP	US72346Q1040	-	-	-	-
PNM	US69349H1077	-	-	-	-
PNR	IE00BLS09M33	-	-	-	-
PNW	US7234841010	-	-	-	-
PODD	US45784P1012	-	-	-	-
POOL	US73278L1052	-	-	-	-
POR	US7365088472	-	-	-	-
POST	US7374461041	-	-	-	-
POWI	US7392761034	-	-	-	-
PPBI	US69478X1054	-	-	-	-
PPC	US72147K1088	-	-	-	-
PPG	US6935061076	-	-	-	-
PPL	US69351T1060	-	-	-	-
PPLT	US0032601066	-	-	-	-
PRA	US74267C1062	-	-	-	-
PRAA	US69354N1063	-	-	-	-
PRAH	US69354M1080	-	-	-	-
PRFT	US71375U1016	-	-	-	-
PRGO	IE00BGH1M568	-	-	-	-
PRGS	US7433121008	-	-	-	-
PRI	US74164M1080	-	-	-	-
PRLB	US7437131094	-	-	-	-
PRO	US74346Y1038	-	-	-	-
PRSP	US7153471005	-	-	-	-
PRTY	US7021491052	-	-	-	-
PRU	US7443201022	-	-	-	-
PSA	US74460D1090	-	-	-	-
PSB	US69360J1079	-	-	-	-
PSEC	US74348T1025	-	-	-	-
PSMT	US7415111092	-	-	-	-
PSN	US70202L1026	-	-	-	-
PSTG	US74624M1027	-	-	-	-
PSX	US7185461040	-	-	-	-
PSXP	US7185492078	-	-	-	-
PTC	US69370C1009	-	-	-	-
PTCT	US69366J2006	-	-	-	-
PTEN	US7034811015	-	-	-	-
PTON	US70614W1009	-	-	-	-
PTR	US71646E1001	-	-	-	-
PUMP	US74347M1080	-	-	-	-

PVG	CA74139C1023	-	-	-	-
PVH	US6936561009	-	-	-	-
PWR	US74762E1029	-	-	-	-
PXD	US7237871071	-	-	-	-
PYPL	US70450Y1038	-	-	-	-
PZZA	US6988131024	-	-	-	-
QCOM	US7475251036	-	-	-	-
QD	US7477981069	-	-	-	-
QDEL	US74838J1016	-	-	-	-
QEP	US74733V1008	-	-	-	-
QGEN	NL0012169213	-	-	-	-
QID	US74347B2438	-	-	-	-
QIWI	US74735M1080	-	-	-	-
QLYS	US74758T3032	-	-	-	-
QNST	US74874Q1004	-	-	-	-
QQQ	US46090E1038	-	-	-	-
QRTEA	US74915M1009	-	-	-	-
QRVO	US74736K1016	-	-	-	-
QSR	CA76131D1033	-	-	-	-
QTEC	US3373451026	-	-	-	-
QTS	US74736A1034	-	-	-	-
QTWO	US74736L1098	-	-	-	-
QUAL	US46432F3394	-	-	-	-
QUOT	US7491191034	-	-	-	-
QURE	NL0010696654	-	-	-	-
R	US7835491082	-	-	-	-
RACE	NL0011585146	-	-	-	-
RARE	US90400D1081	-	-	-	-
RBA	CA7677441056	-	-	-	-
RBC	US7587501039	-	-	-	-
RCI	CA7751092007	-	-	-	-
RCII	US76009N1000	-	-	-	-
RCKT	US77313F1066	-	-	-	-
RCL	LR0008862868	-	-	-	-
RCM	US7493971052	-	-	-	-
RDFN	US75737F1084	-	-	-	-
RDN	US7502361014	-	-	-	-
RDSa	US7802592060	-	-	-	-
RDSb	US7802591070	-	-	-	-
RDUS	US7504692077	-	-	-	-
RDY	US2561352038	-	-	-	-
RE	BMG3223R1088	-	-	-	-

REG	US7588491032	-	-	-	-
REGI	US75972A3014	-	-	-	-
REGN	US75886F1075	-	-	-	-
RELX	US7595301083	-	-	-	-
REM	US46435G3424	-	-	-	-
RES	US7496601060	-	-	-	-
RETA	US75615P1030	-	-	-	-
REXR	US76169C1009	-	-	-	-
RF	US7591EP1005	-	-	-	-
RGA	US7593516047	-	-	-	-
RGEN	US7599161095	-	-	-	-
RGLD	US7802871084	-	-	-	-
RGNX	US75901B1070	-	-	-	-
RGR	US8641591081	-	-	-	-
RH	US74967X1037	-	-	-	-
RHI	US7703231032	-	-	-	-
RHP	US78377T1079	-	-	-	-
RIG	CH0048265513	-	-	-	-
RIGD	US7594701077	-	-	-	-
RIO	US7672041008	-	-	-	-
RJF	US7547301090	-	-	-	-
RL	US7512121010	-	-	-	-
RLGY	US75605Y1064	-	-	-	-
RLI	US7496071074	-	-	-	-
RLJ	US74965L1017	-	-	-	-
RMAX	US75524W1080	-	-	-	-
RMBS	US7509171069	-	-	-	-
RMD	US7611521078	-	-	-	-
RMR	US74967R1068	-	-	-	-
RNG	US76680R2067	-	-	-	-
RNR	BMG7496G1033	-	-	-	-
RNST	US75970E1073	-	-	-	-
ROCK	US3746891072	-	-	-	-
ROG	US7751331015	-	-	-	-
ROIC	US76131N1019	-	-	-	-
ROK	US7739031091	-	-	-	-
ROKU	US77543R1023	-	-	-	-
ROL	US7757111049	-	-	-	-
ROLL	US75524B1044	-	-	-	-
ROP	US7766961061	-	-	-	-
ROSN	US67812M2070	-	-	-	-
ROST	US7782961038	-	-	-	-

RP	US75606N1090	-	-	-	-
RPAI	US76131V2025	-	-	-	-
RPD	US7534221046	-	-	-	-
RPM	US7496851038	-	-	-	-
RRC	US75281A1097	-	-	-	-
RRR	US75700L1089	-	-	-	-
RS	US7595091023	-	-	-	-
RSG	US7607591002	-	-	-	-
RSX	US92189F4037	-	-	-	-
RTRX	US7612991064	-	-	-	-
RTX	US75513E1010	-	-	-	-
RUSHA	US7818462092	-	-	-	-
RVNC	US7613301099	-	-	-	-
RWM	US74348A2107	-	-	-	-
RWR	US78464A6073	-	-	-	-
RWT	US7580754023	-	-	-	-
RWX	US78463X8636	-	-	-	-
RXN	US76169B1026	-	-	-	-
RY	CA7800871021	-	-	-	-
RYAAY	US7835132033	-	-	-	-
RYN	US7549071030	-	-	-	-
RYTM	US76243J1051	-	-	-	-
SABR	US78573M1045	-	-	-	-
SAFM	US8000131040	-	-	-	-
SAGE	US78667J1088	-	-	-	-
SAH	US83545G1022	-	-	-	-
SAIA	US78709Y1055	-	-	-	-
SAIC	US8086251076	-	-	-	-
SAIL	US78781P1057	-	-	-	-
SAM	US1005571070	-	-	-	-
SAN	US05964H1059	-	-	-	-
SAND	CA80013R2063	-	-	-	-
SANM	US8010561020	-	-	-	-
SAP	US8030542042	-	-	-	-
SASR	US8003631038	-	-	-	-
SATS	US2787681061	-	-	-	-
SAVE	US8485771021	-	-	-	-
SBAC	US78410G1040	-	-	-	-
SBCF	US8117078019	-	-	-	-
SBER	US80585Y3080	-	-	-	-
SBGI	US8292261091	-	-	-	-
SBH	US79546E1047	-	-	-	-

SBID	US8565522039	-	-	-	-
SBLK	MHY8162K2046	-	-	-	-
SBNY	US82669G1040	-	-	-	-
SBRA	US78573L1061	-	-	-	-
SBS	US20441A1025	-	-	-	-
SBSI	US84470P1093	-	-	-	-
SBSW	US82575P1075	-	-	-	-
SBUX	US8552441094	-	-	-	-
SCCO	US84265V1052	-	-	-	-
SCHA	US8085246077	-	-	-	-
SCHB	US8085241029	-	-	-	-
SCHD	US8085247976	-	-	-	-
SCHE	US8085247067	-	-	-	-
SCHG	US8085243009	-	-	-	-
SCHH	US8085248479	-	-	-	-
SCHL	US8070661058	-	-	-	-
SCHN	US8068821060	-	-	-	-
SCHO	US8085248628	-	-	-	-
SCHR	US8085248545	-	-	-	-
SCHW	US8085131055	-	-	-	-
SCHX	US8085242019	-	-	-	-
SCHZ	US8085248396	-	-	-	-
SCI	US8175651046	-	-	-	-
SCL	US8585861003	-	-	-	-
SCS	US8581552036	-	-	-	-
SCZ	US4642882736	-	-	-	-
SDOW	US74347G3092	-	-	-	-
SDS	US74347B3832	-	-	-	-
SDY	US78464A7634	-	-	-	-
SE	US81141R1005	-	-	-	-
SEAS	US81282V1008	-	-	-	-
SEDG	US83417M1045	-	-	-	-
SEE	US81211K1007	-	-	-	-
SEIC	US7841171033	-	-	-	-
SEM	US81619Q1058	-	-	-	-
SERV	US81761R1095	-	-	-	-
SF	US8606301021	-	-	-	-
SFBS	US81768T1088	-	-	-	-
SFM	US85208M1027	-	-	-	-
SFNC	US8287302009	-	-	-	-
SGEN	US8125781026	-	-	-	-
SGGD	US8688612048	-	-	-	-

SGH	KYG8232Y1017	-	-	-	-
SGMO	US8006771062	-	-	-	-
SGMS	US80874P1093	-	-	-	-
SH	US74347B4251	-	-	-	-
SHAK	US8190471016	-	-	-	-
SHEN	US82312B1061	-	-	-	-
SHLX	US8226341019	-	-	-	-
SHO	US8678921011	-	-	-	-
SHOO	US5562691080	-	-	-	-
SHOP	CA82509L1076	-	-	-	-
SHV	US4642886794	-	-	-	-
SHW	US8243481061	-	-	-	-
SHY	US4642874576	-	-	-	-
SHYG	US46434V4077	-	-	-	-
SID	US20440W1053	-	-	-	-
SIG	BMG812761002	-	-	-	-
SIGI	US8163001071	-	-	-	-
SIL	US37954Y8488	-	-	-	-
SIMO	US82706C1080	-	-	-	-
SINA	KYG814771047	-	-	-	-
SIRI	US82968B1035	-	-	-	-
SITC	US82981J1097	-	-	-	-
SITE	US82982L1035	-	-	-	-
SIVB	US78486Q1013	-	-	-	-
SIX	US83001A1025	-	-	-	-
SJI	US8385181081	-	-	-	-
SJM	US8326964058	-	-	-	-
SJNK	US78468R4083	-	-	-	-
SJR	CA82028K2002	-	-	-	-
SJW	US7843051043	-	-	-	-
SKM	US78440P1084	-	-	-	-
SKT	US8754651060	-	-	-	-
SKX	US8305661055	-	-	-	-
SKY	US8308301055	-	-	-	-
SKYW	US8308791024	-	-	-	-
SKYY	US33734X1928	-	-	-	-
SLAB	US8269191024	-	-	-	-
SLB	AN8068571086	-	-	-	-
SLCA	US90346E1038	-	-	-	-
SLF	CA8667961053	-	-	-	-
SLG	US78440X1019	-	-	-	-
SLGN	US8270481091	-	-	-	-

SLM	US78442P1066	-	-	-	-
SLV	US46428Q1094	-	-	-	-
SMFG	US86562M2098	-	-	-	-
SMG	US8101861065	-	-	-	-
SMH	US92189F6768	-	-	-	-
SMPL	US82900L1026	-	-	-	-
SMSD	US7960502018	-	-	-	-
SMSN	US7960508882	-	-	-	-
SMTC	US8168501018	-	-	-	-
SNA	US8330341012	-	-	-	-
SNAP	US83304A1060	-	-	-	-
SNBR	US83125X1037	-	-	-	-
SNDR	US80689H1023	-	-	-	-
SNE	US8356993076	-	-	-	-
SNN	US83175M2052	-	-	-	-
SNP	US16941R1086	-	-	-	-
SNPS	US8716071076	-	-	-	-
SNV	US87161C5013	-	-	-	-
SNX	US87162W1009	-	-	-	-
SNY	US80105N1054	-	-	-	-
SO	US8425871071	-	-	-	-
SOHU	US83410S1087	-	-	-	-
SON	US8354951027	-	-	-	-
SOXL	US25459W4583	-	-	-	-
SOXX	US4642875235	-	-	-	-
SPB	US84790A1051	-	-	-	-
SPCE	US92766K1060	-	-	-	-
SPDW	US78463X8891	-	-	-	-
SPG	US8288061091	-	-	-	-
SPGI	US78409V1044	-	-	-	-
SPIB	US78464A3757	-	-	-	-
SPLK	US8486371045	-	-	-	-
SPOT	LU1778762911	-	-	-	-
SPPI	US84763A1088	-	-	-	-
SPR	US8485741099	-	-	-	-
SPSB	US78464A4748	-	-	-	-
SPSC	US78463M1071	-	-	-	-
SPTL	US78464A6644	-	-	-	-
SPXC	US7846351044	-	-	-	-
SPXL	US25459W8626	-	-	-	-
SPXU	US74347B2685	-	-	-	-
SPY	US78462F1030	-	-	-	-

SPYD	US78468R7888	-	-	-	-
SPYG	US78464A4094	-	-	-	-
SQ	US8522341036	-	-	-	-
SQM	US8336351056	-	-	-	-
SQQQ	US74347G8612	-	-	-	-
SR	US84857L1017	-	-	-	-
SRC	US84860W3007	-	-	-	-
SRCL	US8589121081	-	-	-	-
SRE	US8168511090	-	-	-	-
SRG	US81752R1005	-	-	-	-
SRI	US86183P1021	-	-	-	-
SRLN	US78467V6083	-	-	-	-
SRPT	US8036071004	-	-	-	-
SSB	US8404411097	-	-	-	-
SSD	US8290731053	-	-	-	-
SSL	US8038663006	-	-	-	-
SSNC	US78467J1007	-	-	-	-
SSP	US8110544025	-	-	-	-
SSRM	CA7847301032	-	-	-	-
SSTK	US8256901005	-	-	-	-
SSYS	IL0011267213	-	-	-	-
ST	GB00BFMBMT84	-	-	-	-
STAA	US8523123052	-	-	-	-
STAG	US85254J1025	-	-	-	-
STAY	US30224P2002	-	-	-	-
STBA	US7838591011	-	-	-	-
STL	US85917A1007	-	-	-	-
STLD	US8581191009	-	-	-	-
STM	US8610121027	-	-	-	-
STMP	US8528572006	-	-	-	-
STOR	US8621211007	-	-	-	-
STRA	US86272C1036	-	-	-	-
STT	US8574771031	-	-	-	-
STWD	US85571B1052	-	-	-	-
STX	IE00B58JVZ52	-	-	-	-
STZ	US21036P1084	-	-	-	-
SU	CA8672241079	-	-	-	-
SUI	US8666741041	-	-	-	-
SUM	US86614U1007	-	-	-	-
SUN	US86765K1097	-	-	-	-
SUPN	US8684591089	-	-	-	-
SUPV	US40054A1088	-	-	-	-

SVST	US8181503025	-	-	-	-
SWCH	US87105L1044	-	-	-	-
SWK	US8545021011	-	-	-	-
SWKS	US83088M1027	-	-	-	-
SWM	US8085411069	-	-	-	-
SWN	US8454671095	-	-	-	-
SWX	US8448951025	-	-	-	-
SXC	US86722A1034	-	-	-	-
SXT	US81725T1007	-	-	-	-
SYF	US87165B1035	-	-	-	-
SYK	US8636671013	-	-	-	-
SYKE	US8712371033	-	-	-	-
SYNA	US87157D1090	-	-	-	-
SYNH	US87166B1026	-	-	-	-
SYY	US8718291078	-	-	-	-
T	US00206R1023	-	-	-	-
TAK	US8740602052	-	-	-	-
TALO	US87484T1088	-	-	-	-
TAP	US60871R2094	-	-	-	-
TBT	US74347B2016	-	-	-	-
TCBI	US88224Q1076	-	-	-	-
TCMD	US87357P1003	-	-	-	-
TCO	US8766641034	-	-	-	-
TCS	US87238U2033	-	-	-	-
TCX	US8986972060	-	-	-	-
TD	CA8911605092	-	-	-	-
TDC	US88076W1036	-	-	-	-
TDG	US8936411003	-	-	-	-
TDOC	US87918A1051	-	-	-	-
TDS	US8794338298	-	-	-	-
TDW	US88642R1095	-	-	-	-
TDY	US8793601050	-	-	-	-
TEAM	GB00BZ09BD16	-	-	-	-
TECH	US09073M1045	-	-	-	-
TECK	CA8787422044	-	-	-	-
TECL	US25459W1027	-	-	-	-
TEF	US8793822086	-	-	-	-
TEL	CH0102993182	-	-	-	-
TENB	US88025T1025	-	-	-	-
TER	US8807701029	-	-	-	-
TEVA	US8816242098	-	-	-	-
TEX	US8807791038	-	-	-	-

TFC	US89832Q1094	-	-	-	-
TFX	US8793691069	-	-	-	-
TGNA	US87901J1051	-	-	-	-
TGT	US87612E1064	-	-	-	-
TGTX	US88322Q1085	-	-	-	-
THC	US88033G4073	-	-	-	-
THD	US4642866242	-	-	-	-
THG	US4108671052	-	-	-	-
THO	US8851601018	-	-	-	-
THRM	US37253A1034	-	-	-	-
THS	US89469A1043	-	-	-	-
TIF	US8865471085	-	-	-	-
TILE	US4586653044	-	-	-	-
TIP	US4642871762	-	-	-	-
TJX	US8725401090	-	-	-	-
TKR	US8873891043	-	-	-	-
TLK	US7156841063	-	-	-	-
TLND	US8742242071	-	-	-	-
TLT	US4642874329	-	-	-	-
TM	US8923313071	-	-	-	-
TME	US88034P1093	-	-	-	-
TMF	US25459W5408	-	-	-	-
TMHC	US87724P1066	-	-	-	-
TMO	US8835561023	-	-	-	-
TMUS	US8725901040	-	-	-	-
TMV	US25460G8490	-	-	-	-
TNA	US25459W8477	-	-	-	-
TNC	US8803451033	-	-	-	-
TNET	US8962881079	-	-	-	-
TOL	US8894781033	-	-	-	-
TOT	US89151E1091	-	-	-	-
TOTL	US78467V8485	-	-	-	-
TPH	US87265H1095	-	-	-	-
TPIC	US87266J1043	-	-	-	-
TPR	US8760301072	-	-	-	-
TPX	US88023U1016	-	-	-	-
TQQQ	US74347X8314	-	-	-	-
TREE	US52603B1070	-	-	-	-
TREX	US89531P1057	-	-	-	-
TRGP	US87612G1013	-	-	-	-
TRHC	US8733791011	-	-	-	-
TRIP	US8969452015	-	-	-	-

TRMB	US8962391004	-	-	-	-
TRMK	US8984021027	-	-	-	-
TRNO	US88146M1018	-	-	-	-
TROW	US74144T1088	-	-	-	-
TRTX	US87266M1071	-	-	-	-
TRU	US89400J1079	-	-	-	-
TRUE	US89785L1070	-	-	-	-
TRUP	US8982021060	-	-	-	-
TRV	US89417E1091	-	-	-	-
TS	US88031M1099	-	-	-	-
TSCO	US8923561067	-	-	-	-
TSE	LU1057788488	-	-	-	-
TSEM	IL0010823792	-	-	-	-
TSLA	US88160R1014	-	-	-	-
TSM	US8740391003	-	-	-	-
TSN	US9024941034	-	-	-	-
TSU	US88706P2056	-	-	-	-
TT	IE00BK9ZQ967	-	-	-	-
TTC	US8910921084	-	-	-	-
TTD	US88339J1051	-	-	-	-
TTEK	US88162G1031	-	-	-	-
TTM	US8765685024	-	-	-	-
TTMI	US87305R1095	-	-	-	-
TTWO	US8740541094	-	-	-	-
TU	CA87971M1032	-	-	-	-
TUR	US4642867158	-	-	-	-
TV	US40049J2069	-	-	-	-
TVTY	US88870R1023	-	-	-	-
TWLO	US90138F1021	-	-	-	-
TWNK	US44109J1060	-	-	-	-
TWO	US90187B4086	-	-	-	-
TWOU	US90214J1016	-	-	-	-
TWTR	US90184L1026	-	-	-	-
TX	US8808901081	-	-	-	-
TXN	US8825081040	-	-	-	-
TXRH	US8826811098	-	-	-	-
TXT	US8832031012	-	-	-	-
TYL	US9022521051	-	-	-	-
UA	US9043112062	-	-	-	-
UAA	US9043111072	-	-	-	-
UAL	US9100471096	-	-	-	-
UBS	CH0244767585	-	-	-	-

UBSI	US9099071071	-	-	-	-
UCBI	US90984P3038	-	-	-	-
UDOW	US74347X8231	-	-	-	-
UDR	US9026531049	-	-	-	-
UE	US91704F1049	-	-	-	-
UFS	US2575592033	-	-	-	-
UGI	US9026811052	-	-	-	-
UHAL	US0235861004	-	-	-	-
UHS	US9139031002	-	-	-	-
UHT	US91359E1055	-	-	-	-
UI	US90353W1036	-	-	-	-
UL	US9047677045	-	-	-	-
ULTA	US90384S3031	-	-	-	-
UMBF	US9027881088	-	-	-	-
UMPQ	US9042141039	-	-	-	-
UN	US9047847093	-	-	-	-
UNF	US9047081040	-	-	-	-
UNG	US9123183009	-	-	-	-
UNH	US91324P1021	-	-	-	-
UNIT	US91325V1089	-	-	-	-
UNM	US91529Y1064	-	-	-	-
UNP	US9078181081	-	-	-	-
UNVR	US91336L1070	-	-	-	-
UPLD	US91544A1097	-	-	-	-
UPRO	US74347X8645	-	-	-	-
UPS	US9113121068	-	-	-	-
URBN	US9170471026	-	-	-	-
URGN	IL0011407140	-	-	-	-
URI	US9113631090	-	-	-	-
URTY	US74347X7993	-	-	-	-
USB	US9029733048	-	-	-	-
USCR	US90333L2016	-	-	-	-
USFD	US9120081099	-	-	-	-
USM	US9116841084	-	-	-	-
USMV	US46429B6974	-	-	-	-
USNA	US90328M1071	-	-	-	-
USO	US91232N2071	-	-	-	-
USPH	US90337L1089	-	-	-	-
UTHR	US91307C1027	-	-	-	-
UVE	US91359V1070	-	-	-	-
UVV	US9134561094	-	-	-	-
V	US92826C8394	-	-	-	-

VAC	US57164Y1073	-	-	-	-
VALE	US91912E1055	-	-	-	-
VAR	US92220P1057	-	-	-	-
VAW	US92204A8018	-	-	-	-
VB	US9229087518	-	-	-	-
VBK	US9229085959	-	-	-	-
VBR	US9229086114	-	-	-	-
VBTX	US9234511080	-	-	-	-
VC	US92839U2069	-	-	-	-
VCIT	US92206C8709	-	-	-	-
VCLT	US92206C8139	-	-	-	-
VCR	US92204A1088	-	-	-	-
VCRA	US92857F1075	-	-	-	-
VCSH	US92206C4096	-	-	-	-
VDC	US92204A2078	-	-	-	-
VDE	US92204A3068	-	-	-	-
VEA	US9219438580	-	-	-	-
VEEV	US9224751084	-	-	-	-
VEON	US91822M1062	-	-	-	-
VER	US92339V1008	-	-	-	-
VET	CA9237251058	-	-	-	-
VEU	US9220427754	-	-	-	-
VFC	US9182041080	-	-	-	-
VFH	US92204A4058	-	-	-	-
VG	US92886T2015	-	-	-	-
VGIT	US92206C7065	-	-	-	-
VGK	US9220428745	-	-	-	-
VGLT	US92206C8477	-	-	-	-
VGR	US92240M1080	-	-	-	-
VGSH	US92206C1027	-	-	-	-
VGT	US92204A7028	-	-	-	-
VHT	US92204A5048	-	-	-	-
VIAC	US92556H2067	-	-	-	-
VIAV	US9255501051	-	-	-	-
VICI	US9256521090	-	-	-	-
VICR	US9258151029	-	-	-	-
VIG	US9219088443	-	-	-	-
VIOO	US9219328286	-	-	-	-
VIPS	US92763W1036	-	-	-	-
VIRT	US9282541013	-	-	-	-
VIS	US92204A6038	-	-	-	-
VIV	US87936R1068	-	-	-	-

VKTX	US92686J1060	-	-	-	-
VLO	US91913Y1001	-	-	-	-
VLUE	US46432F3881	-	-	-	-
VLY	US9197941076	-	-	-	-
VMBS	US92206C7719	-	-	-	-
VMC	US9291601097	-	-	-	-
VMI	US9202531011	-	-	-	-
VMW	US9285634021	-	-	-	-
VNDA	US9216591084	-	-	-	-
VNE	US92336X1090	-	-	-	-
VNO	US9290421091	-	-	-	-
VNOM	US92763M1053	-	-	-	-
VNQ	US9229085538	-	-	-	-
VNQI	US9220426764	-	-	-	-
VO	US9229086296	-	-	-	-
VOD	US92857W3088	-	-	-	-
VOE	US9229085124	-	-	-	-
VONG	US92206C6802	-	-	-	-
VOO	US9229083632	-	-	-	-
VOOG	US9219325050	-	-	-	-
VOT	US9229085389	-	-	-	-
VOX	US92204A8844	-	-	-	-
VOYA	US9290891004	-	-	-	-
VPL	US9220428661	-	-	-	-
VPU	US92204A8760	-	-	-	-
VRAY	US92672L1070	-	-	-	-
VREX	US92214X1063	-	-	-	-
VRNS	US9222801022	-	-	-	-
VRNT	US92343X1000	-	-	-	-
VRSK	US92345Y1064	-	-	-	-
VRSN	US92343E1029	-	-	-	-
VRTS	US92828Q1094	-	-	-	-
VRTU	US92827P1021	-	-	-	-
VRTX	US92532F1003	-	-	-	-
VSAT	US92552V1008	-	-	-	-
VSH	US9282981086	-	-	-	-
VSS	US9220427184	-	-	-	-
VST	US92840M1027	-	-	-	-
VT	US9220427424	-	-	-	-
VTBR	US46630Q2021	-	-	-	-
VTEB	US9229077469	-	-	-	-
VTI	US9229087690	-	-	-	-

VTIP	US9220208055	-	-	-	-
VTR	US92276F1003	-	-	-	-
VTV	US9229087443	-	-	-	-
VTWO	US92206C6646	-	-	-	-
VUG	US9229087369	-	-	-	-
VV	US9229086379	-	-	-	-
VVI	US92552R4065	-	-	-	-
VVV	US92047W1018	-	-	-	-
VWO	US9220428588	-	-	-	-
VXF	US9229086528	-	-	-	-
VXUS	US9219097683	-	-	-	-
VYGR	US92915B1061	-	-	-	-
VYM	US9219464065	-	-	-	-
VZ	US92343V1044	-	-	-	-
W	US94419L1017	-	-	-	-
WAB	US9297401088	-	-	-	-
WABC	US9570901036	-	-	-	-
WAFD	US9388241096	-	-	-	-
WAL	US9576381092	-	-	-	-
WAT	US9418481035	-	-	-	-
WB	US9485961018	-	-	-	-
WBA	US9314271084	-	-	-	-
WBS	US9478901096	-	-	-	-
WCC	US95082P1057	-	-	-	-
WCN	CA94106B1013	-	-	-	-
WD	US93148P1021	-	-	-	-
WDAY	US98138H1014	-	-	-	-
WDC	US9581021055	-	-	-	-
WDFC	US9292361071	-	-	-	-
WDR	US9300591008	-	-	-	-
WEC	US92939U1060	-	-	-	-
WELL	US95040Q1040	-	-	-	-
WEN	US95058W1009	-	-	-	-
WERN	US9507551086	-	-	-	-
WETF	US97717P1049	-	-	-	-
WEX	US96208T1043	-	-	-	-
WFC	US9497461015	-	-	-	-
WGO	US9746371007	-	-	-	-
WH	US98311A1051	-	-	-	-
WHD	US1272031071	-	-	-	-
WHR	US9633201069	-	-	-	-
WIFI	US09739C1027	-	-	-	-

WING	US9741551033	-	-	-	-
WIRE	US2925621052	-	-	-	-
WIX	IL0011301780	-	-	-	-
WK	US98139A1051	-	-	-	-
WLK	US9604131022	-	-	-	-
WLTW	IE00BDB6Q211	-	-	-	-
WM	US94106L1098	-	-	-	-
WMB	US9694571004	-	-	-	-
WMGI	NL0011327523	-	-	-	-
WMS	US00790R1041	-	-	-	-
WMT	US9311421039	-	-	-	-
WNC	US9295661071	-	-	-	-
WNS	US92932M1018	-	-	-	-
WOR	US9818111026	-	-	-	-
WPC	US92936U1097	-	-	-	-
WPG	US93964W1080	-	-	-	-
WPM	CA9628791027	-	-	-	-
WPP	US92937A1025	-	-	-	-
WPX	US98212B1035	-	-	-	-
WRB	US0844231029	-	-	-	-
WRE	US9396531017	-	-	-	-
WRI	US9487411038	-	-	-	-
WRK	US96145D1054	-	-	-	-
WRLD	US9814191048	-	-	-	-
WSBC	US9508101014	-	-	-	-
WSFS	US9293281021	-	-	-	-
WSM	US9699041011	-	-	-	-
WSO	US9426222009	-	-	-	-
WST	US9553061055	-	-	-	-
WTFC	US97650W1080	-	-	-	-
WTI	US92922P1066	-	-	-	-
WTM	BMG9618E1075	-	-	-	-
WTS	US9427491025	-	-	-	-
WTTR	US81617J3014	-	-	-	-
WU	US9598021098	-	-	-	-
WUBA	US31680Q1040	-	-	-	-
WVE	SG9999014716	-	-	-	-
WWD	US9807451037	-	-	-	-
WWE	US98156Q1085	-	-	-	-
WWW	US9780971035	-	-	-	-
WY	US9621661043	-	-	-	-
WYND	US98310W1080	-	-	-	-

WYNN	US9831341071	-	-	-	-
X	US9129091081	-	-	-	-
XAR	US78464A6313	-	-	-	-
XBI	US78464A8707	-	-	-	-
XEC	US1717981013	-	-	-	-
XEL	US98389B1008	-	-	-	-
XENT	US46071F1030	-	-	-	-
XHB	US78464A8889	-	-	-	-
XHR	US9840171030	-	-	-	-
XLB	US81369Y1001	-	-	-	-
XLE	US81369Y5069	-	-	-	-
XLF	US81369Y6059	-	-	-	-
XLI	US81369Y7040	-	-	-	-
XLK	US81369Y8030	-	-	-	-
XLNX	US9839191015	-	-	-	-
XLP	US81369Y3080	-	-	-	-
XLRE	US81369Y8600	-	-	-	-
XLRN	US00434H1086	-	-	-	-
XLU	US81369Y8865	-	-	-	-
XLV	US81369Y2090	-	-	-	-
XLY	US81369Y4070	-	-	-	-
XME	US78464A7550	-	-	-	-
XNCR	US98401F1057	-	-	-	-
XOM	US30231G1022	-	-	-	-
XOP	US78468R5569	-	-	-	-
XPO	US9837931008	-	-	-	-
XRAY	US24906P1093	-	-	-	-
XRT	US78464A7147	-	-	-	-
XRX	US98421M1062	-	-	-	-
XSD	US78464A8624	-	-	-	-
XYL	US98419M1009	-	-	-	-
Y	US0171751003	-	-	-	-
YANG	US25460E5217	-	-	-	-
YELP	US9858171054	-	-	-	-
YEXT	US98585N1063	-	-	-	-
YINN	US25459W7719	-	-	-	-
YNDX	NL0009805522	-	-	-	-
YPF	US9842451000	-	-	-	-
YUM	US9884981013	-	-	-	-
YUMC	US98850P1093	-	-	-	-
YY	US46591M1099	-	-	-	-
Z	US98954M2008	-	-	-	-

ZBH	US98956P1021	-	-	-	-
ZBRA	US9892071054	-	-	-	-
ZEN	US98936J1016	-	-	-	-
ZG	US98954M1018	-	-	-	-
ZGNX	US98978L2043	-	-	-	-
ZI	US98980F1049	-	-	-	-
ZION	US9897011071	-	-	-	-
ZM	US98980L1017	-	-	-	-
ZNGA	US98986T1088	-	-	-	-
ZS	US98980G1022	-	-	-	-
ZTO	US98980A1051	-	-	-	-
ZTS	US98978V1035	-	-	-	-
ZUMZ	US9898171015	-	-	-	-
ZUO	US98983V1061	-	-	-	-