

DATE: March 3, 2017

TO: MIAX PEARL Members

FROM: MIAX PEARL Regulatory Department

RE: Newly Listed Option Classes Included in the MIAX PEARL Penny Pilot Program as of March 6, 2017

The following option classes will be included in the MIAX PEARL Penny Pilot Program on Monday, March 6, 2017, as set forth in MIAX PEARL Rule 510, Minimum Price Variations and Minimum Trading Increments, section .01.

UNDERLYING SYMBOL	SECURITY NAME	OPTION SYMBOL
DDD	3D SYSTEMS CORPORATION	DDD
ADBE	ADOBE SYSTEMS, INC.	ADBE
AET	AETNA, INC.	AET
AGNC	AGNC INVESTMENT CORPORATION	AGNC
AKS	AK STEEL HOLDING CORPORATION	AKS
AMGN	AMGEN, INC.	AMGN
APA	APACHE CORPORATION	APA
AMAT	APPLIED MATERIALS, INC.	AMAT
MT	ARCELORMITTAL	MT
T	AT&T, INC.	T
BIDU	BAIDU, INC.	BIDU
ABX	BARRICK GOLD CORPORATION	ABX
BBT	BB&T CORPORATION	BBT
BSX	BOSTON SCIENTIFIC CORPORATION	BSX
BP	BP PLC	BP
COF	CAPITAL ONE FINANCIAL CORPORATION	COF
CBS	CBS CORPORATION	CBS
CVX	CHEVRON CORPORATION	CVX
CIEN	CIENA CORPORATION	CIEN
CSCO	CISCO SYSTEMS, INC.	CSCO
C	CITIGROUP, INC.	C
CLF	CLIFFS NATURAL RESOURCES, INC.	CLF
CMCSA	COMCAST CORPORATION	CMCSA
COP	CONOCOPHILLIPS	COP
CNX	CONSOL ENERGY, INC.	CNX
XLY	CONSUMER DISCRETIONARY SELECT SPDR ETF	XLY

XLP	CONSUMER STAPLES SELECT SECTOR SPDR ETF	XLP
GLW	CORNING, INC.	GLW
COST	COSTCO WHOLESALE CORPORATION	COST
COTY	COTY INC.	COTY
CVS	CVS HEALTH CORPORATION	CVS
DE	DEERE & COMPANY	DE
DB	DEUTSCHE BANK AG	DB
DD	E. I. DU PONT DE NEMOURS AND COMPANY	DD
EA	ELECTRONIC ARTS, INC.	EA
XLE	ENERGY SELECT SECTOR SPDR ETF	XLE
EOG	EOG RESOURCES, INC.	EOG
FEYE	FIREEYE, INC.	FEYE
FSLR	FIRST SOLAR, INC.	FSLR
F	FORD MOTOR COMPANY	F
GME	GAMESTOP CORPORATION	GME
GGP	GGP, INC.	GGP
GILD	GILEAD SCIENCES, INC.	GILD
GG	GOLDCORP, INC.	GG
HAL	HALLIBURTON COMPANY	HAL
XLV	HEALTH CARE SELECT SECTOR SPDR ETF	XLV
HLF	HERBALIFE LIMITED	HLF
HSBC	HSBC HOLDINGS PLC	HSBC
IBN	ICICI BANK LIMITED	IBN
XLI	INDUSTRIAL SELECT SECTOR SPDR ETF	XLI
IP	INTERNATIONAL PAPER COMPANY	IP
FXI	ISHARES CHINA LARGE-CAP	FXI
HYG	ISHARES IBOX \$ HIGH YIELD CORPORATE BOND	HYG
EFA	ISHARES MSCI EAFE	EFA
EWJ	ISHARES MSCI JAPAN	EWJ
IYR	ISHARES US REAL ESTATE	IYR
KMI	KINDER MORGAN, INC.	KMI
KGC	KINROSS GOLD CORPORATION	KGC
M	MACY'S, INC.	M
MRO	MARATHON OIL CORPORATION	MRO
MRVL	MARVELL TECHNOLOGY GROUP LIMITED	MRVL
MA	MASTERCARD INCORPORATED	MA
XLB	MATERIALS SELECT SECTOR SPDR ETF	XLB
MRK	MERCK & COMPANY, INC.	MRK
MU	MICRON TECHNOLOGY, INC.	MU
MSFT	MICROSOFT CORPORATION	MSFT
MON	MONSANTO COMPANY	MON

MS	MORGAN STANLEY	MS
MYL	MYLAN N.V.	MYL
NBR	NABORS INDUSTRIES LIMITED	NBR
NTAP	NETAPP, INC.	NTAP
NEM	NEWMONT MINING CORPORATION	NEM
NKE	NIKE, INC.	NKE
NE	NOBLE CORPORATION PLC	NE
JWN	NORDSTROM, INC.	JWN
NUE	NUCOR CORPORATION	NUE
OXY	OCCIDENTAL PETROLEUM CORPORATION	OXY
SSO	PROSHARES ULTRA S&P500	SSO
UVXY	PROSHARES ULTRA VIX SHORT-TERM FUTURES	UVXY
TBT	PROSHARES ULTRASHORT 20+ YEAR TREASURY	TBT
SDS	PROSHARES ULTRASHORT S&P500	SDS
PHM	PULTEGROUP, INC.	PHM
RCL	ROYAL CARIBBEAN CRUISES LIMITED	RCL
CRM	SALESFORCE.COM, INC.	CRM
SLB	SCHLUMBERGER LIMITED	SLB
STX	SEAGATE TECHNOLOGY PLC	STX
SLW	SILVER WHEATON CORPORATION	SLW
XBI	SPDR S&P BIOTECH ETF	XBI
XOP	SPDR S&P OIL & GAS EXPLORATION & PROD ETF	XOP
SU	SUNCOR ENERGY, INC.	SU
SYMC	SYMANTEC CORPORATION	SYMC
TGT	TARGET CORPORATION	TGT
XLK	TECHNOLOGY SELECT SECTOR SPDR ETF	XLK
TECK	TECK RESOURCES LIMITED	TECK
TSO	TESORO CORPORATION	TSO
TEVA	TEVA PHARMACEUTICAL INDUSTRIES LIMITED	TEVA
BX	THE BLACKSTONE GROUP L.P.	BX
DOW	THE DOW CHEMICAL COMPANY	DOW
GPS	THE GAP, INC.	GPS
HIG	THE HARTFORD FINANCIAL SERVICES GROUP, INC.	HIG
MOS	THE MOSAIC COMPANY	MOS
PNC	THE PNC FINANCIAL SERVICES GROUP, INC.	PNC
SO	THE SOUTHERN COMPANY	SO
DIS	THE WALT DISNEY COMPANY	DIS
TWX	TIME WARNER, INC.	TWX
USB	U.S. BANCORP	USB
UPS	UNITED PARCEL SERVICE, INC.	UPS
UNG	UNITED STATES NATURAL GAS	UNG

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X	UNITED STATES STEEL CORPORATION	X
UNH	UNITEDHEALTH GROUP INCORPORATED	UNH
GDXJ	VANECK VECTORS JUNIOR GOLD MINERS ETF	GDXJ
RSX	VANECK VECTORS RUSSIA ETF	RSX
VZ	VERIZON COMMUNICATIONS, INC.	VZ
WYNN	WYNN RESORTS LIMITED	WYNN
YHOO	YAHOO!, INC.	YHOO
YUM	YUM! BRANDS, INC.	YUM

As part of the MIAX PEARL Penny Pilot Program select options may trade in \$.01 increments when priced below \$3.00. Options priced at \$3.00 and above will trade in \$.05 increments.

Please direct any questions to the Regulatory Department at Regulatory@MIAXOptions.com or (609) 897-7309.