

**DATE:** November 10, 2017

**TO:** MIAX PEARL Members

**FROM:** MIAX PEARL Regulatory Department

**RE:** Market for Underlying Security Used for Openings on MIAX PEARL for Newly Listed Option Classes Effective Monday, November 13, 2017

The following symbols will start trading on MIAX PEARL beginning Monday, November 13, 2017, and, as set forth in MIAX PEARL Rule 503(a)(3), MIAX PEARL shall use the exchange identified below as the “market for the underlying security” for purposes of Openings on the Exchange.

Option Symbol	Security Name	Underlying Symbol	Exchange for Opening
ACTA	Actua Corporation	ACTA	NASDAQ
ADMS	Adamas Pharmaceuticals, Inc.	ADMS	NASDAQ
AFTY	CSOP FTSE China A50 ETF	AFTY	NYSE Arca
AHL	Aspen Insurance Holdings Limited	AHL	NYSE
AIMT	Aimmune Therapeutics, Inc.	AIMT	NASDAQ
ALOG	Analogic Corporation	ALOG	NASDAQ
ANGO	AngioDynamics, Inc.	ANGO	NASDAQ
ATUS	Altice USA, Inc.	ATUS	NYSE
AVEO	AVEO Pharmaceuticals, Inc.	AVEO	NASDAQ
BAS	Basic Energy Services, Inc.	BAS	NYSE
BECN	Beacon Roofing Supply, Inc.	BECN	NASDAQ
BGNE	BeiGene, Ltd.	BGNE	NASDAQ
BHF	BrightHouse Financial, Inc.	BHF	NASDAQ
BHGE	Baker Hughes, a GE company	BHGE	NYSE
BKD	Brookdale Senior Living Inc.	BKD	NYSE
BKF	iShares MSCI BRIC ETF	BKF	NYSE Arca
BPMC	Blueprint Medicines Corp.	BPMC	NASDAQ
BTU	Peabody Energy Corporation	BTU	NYSE
CARS	Cars.com Inc.	CARS	NYSE
CCC	Calgon Carbon Corporation	CCC	NYSE
CLDR	Cloudera, Inc.	CLDR	NYSE
CLLS	Collectis S.A.	CLLS	NASDAQ
COL	Rockwell Collins, Inc.	COL	NYSE
CUTR	Cutera, Inc.	CUTR	NASDAQ

Option Symbol	Security Name	Underlying Symbol	Exchange for Opening
CVNA	Carvana Co.	CVNA	NYSE
DBVT	DBV Technologies S.A.	DBVT	NASDAQ
DIOD	Diodes Incorporated	DIOD	NASDAQ
FCSC	Fibrocell Science Inc	FCSC	NASDAQ
FM	iShares MSCI Frontier 100 ETF	FM	NYSE Arca
FND	Floor & Decor Holdings, Inc.	FND	NYSE
FWONA	Formula One Group	FWONA	NASDAQ
GLDD	Great Lakes Dredge & Dock Corporation	GLDD	NASDAQ
GLOB	Globant S.A.	GLOB	NYSE
GLP	Global Partners LP	GLP	NYSE
GLYC	GlycoMimetics, Inc.	GLYC	NASDAQ
GROW	U.S. Global Investors, Inc.	GROW	NASDAQ
GSAT	Globalstar, Inc.	GSAT	NYSE American
GXG	Global X MSCI Colombia ETF	GXG	NYSE Arca
HE	Hawaiian Electric Industries, Inc.	HE	NYSE
HIIQ	Health Insurance Innovations, Inc.	HIIQ	NASDAQ
HOMB	Home BancShares, Inc.	HOMB	NASDAQ
HOME	At Home Group Inc.	HOME	NYSE
HSNI	HSN, Inc.	HSNI	NASDAQ
IWP	iShares Russell Midcap Growth ETF	IWP	NYSE Arca
IWS	iShares Russell Mid-cap Value ETF	IWS	NYSE Arca
KL	Kirkland Lake Gold Ltd.	KL	NYSE
KOPN	Kopin Corporation	KOPN	NASDAQ
LBRDK	Liberty Broadband Corporation	LBRDK	NASDAQ
LOXO	Loxo Oncology, Inc.	LOXO	NASDAQ
LVNTA	Liberty Ventures	LVNTA	NASDAQ
MANT	ManTech International Corporation	MANT	NASDAQ
MCRI	Monarch Casino & Resort, Inc.	MCRI	NASDAQ
MNRO	Monro, Inc.	MNRO	NASDAQ
MRTX	Mirati Therapeutics, Inc.	MRTX	NASDAQ
MTRX	Matrix Service Company	MTRX	NASDAQ
NEOS	Neos Therapeutics, Inc.	NEOS	NASDAQ
NRE	NorthStar Realty Europe Corp.	NRE	NYSE
OKTA	Okta, Inc.	OKTA	NASDAQ
OTIC	Otonomy, Inc.	OTIC	NASDAQ
PLPM	Planet Payment, Inc.	PLPM	NASDAQ
POWI	Power Integrations, Inc.	POWI	NASDAQ

Option Symbol	Security Name	Underlying Symbol	Exchange for Opening
PRFT	Perficient, Inc.	PRFT	NASDAQ
PRO	PROS Holdings, Inc.	PRO	NYSE
QDEL	Quidel Corporation	QDEL	NASDAQ
RDFN	Redfin Corporation	RDFN	NASDAQ
RE	Everest Re Group, Ltd.	RE	NYSE
REG	Regency Centers Corporation	REG	NYSE
REMX	VanEck Vectors Rare Earth/Strat Mtls ETF	REMX	NYSE Arca
RGNX	REGENXBIO Inc.	RGNX	NASDAQ
RIC	Richmont Mines, Inc.	RIC	NYSE
RICE	Rice Energy Inc.	RICE	NYSE
RLJ	RLJ Lodging Trust	RLJ	NYSE
RNR	RenaissanceRe Holdings Ltd.	RNR	NYSE
RUSHA	Rush Enterprises, Inc.	RUSHA	NASDAQ
RXDX	Ignyta, Inc.	RXDX	NASDAQ
SFR	Starwood Waypoint Homes	SFR	NYSE
STRL	Sterling Construction Company Inc.	STRL	NASDAQ
TCF	TCF Financial Corporation	TCF	NYSE
TEF	Telefonica SA	TEF	NYSE
TNXP	Tonix Pharmaceuticals Holding Corp.	TNXP	NASDAQ
TTD	The Trade Desk, Inc.	TTD	NASDAQ
UMH	UMH Properties, Inc.	UMH	NYSE
UPL	Ultra Petroleum Corp.	UPL	NASDAQ
VNOM	Viper Energy Partners LP	VNOM	NASDAQ
VR	Validus Holdings, Ltd.	VR	NYSE
VREX	Varex Imaging Corporation	VREX	NASDAQ
VSTM	Verastem, Inc.	VSTM	NASDAQ
VXUS	Vanguard Total International Stock ETF	VXUS	NASDAQ
VYGR	Voyager Therapeutics, Inc.	VYGR	NASDAQ
WBT	Welbilt, Inc.	WBT	NYSE
WMS	Advanced Drainage Systems, Inc.	WMS	NYSE
WRLD	World Acceptance Corporation	WRLD	NASDAQ
XCO	EXCO Resources, Inc.	XCO	NYSE
ZN	Zion Oil & Gas Inc.	ZN	NASDAQ

Please direct questions to the Regulatory Department at [Regulatory@MIAXOptions.com](mailto:Regulatory@MIAXOptions.com) or (609) 897-7309.