FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person*     Xiao Deming				<u>M</u>	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC MPWR									tionship of all applica Director		ng Pei	10% C	wner	
(Last) (First) (Middle) 79 GREAT OAKS BLVD			3. [	3. Date of Earliest Transaction (Month/Day/Year) 10/25/2018								X	Officer (g below) Pres. or		e title Other (some below)  MPS Asia Operation				
(Street) SAN JOSE	CA	95	5119		- 4. I	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Indiv Line)	vidual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person					
(City)	(State)	(Zi		on-Deri	vative	- So	curitie	e Aca	uired I		nosed	of o	r Bone	ficially					
1. Title of Security (Instr. 3) 2. To Date			2. Transa Date (Month/D	ction	tion 2A. Deemed Execution Date,			uired, Disposed of, or Benefi  3. Transaction Code (Instr. 8)  4. Securities Acquired (. Disposed Of (D) (Instr. 3 and 5)			d (A) or	5. Amount of Securities Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership			
							Code	v	Amour	Amount		Price	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)		
Common Stock			10/25/2	0/25/2018(1)				M <sup>(1)</sup>		12,885(1)		A	\$0.0	308,056			D		
Common Stoc	k			10/25/2	2018(2)	)			M <sup>(2)</sup>		15,0	75(2)	A	\$0.0 323,131 D		D			
Common Stock													1,10	)1		I	by Spouse		
			Table						red, Dis					illy Owne	ed				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	any	eemed tion Date, if :h/Day/Year)	4. Transa Code (In			e s I (A) or I of (D)	6. Date Exercisable Expiration Date (Month/Day/Year)		te	Securities Underlyi		lying	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficially Owned Following Reported	re es ally ng	Ownership Form:	Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title		Amount or Number of Shares		Transactio			
Performance Shares	(1)	10/25/2018			<b>M</b> <sup>(1)</sup>			12,885	(1)		(1)		mmon tock	12,885	\$0.0	43,2	89	D	
Performance Shares	(2)	10/25/2018			M <sup>(2)</sup>			15,075	(2)	T	(2)		mmon tock	15,075	\$0.0	28,2	14	D	
Restricted Stock Units <sup>(3)</sup>	(3)	10/25/2018		(3)	A		48,000		(3)		(3)		mmon tock	48,000	\$0.0	48,0	00	D	

## **Explanation of Responses:**

- 1. On December 31, 2015, the reporting person was granted a target number of 75,678 performance units in four tranches subject to satisfaction of share price targets over the next four years. The vesting of performance units in the second, third and fourth tranches is also subject to the satisfaction of certain operational goals, as determined by the Compensation Committee. All performance units are subject to time based vesting through January 1, 2020 or an earlier change in control. Once vested, one-third of the resulting shares have no sales restrictions and are sellable on January 1, 2020, one-third of the shares have sales restrictions until January 1, 2021 and one-third of the shares have sales restrictions until January 1, 2022. On October 25, 2018, the Compensation Committee determined one of the operational goals for the second tranche of performance units had been satisfied, which resulted in 12,885 units being credited, subject to time based vesting above.
- 2. On December 31, 2015, the reporting person was granted a target number of 75,678 shares of performance units in four tranches subject to satisfaction of share price targets over the next four years. The vesting of performance units in the second, third and fourth tranches is also subject to the satisfaction of certain operational goals, as determined by the Compensation Committee. All performance units are subject to time based vesting and require service through January 1, 2020 or an earlier change in control. Once vested, one-third of the resulting shares have no sales restrictions and are sellable on January 1, 2020, one-third of the shares have sales restrictions until January 1, 2021 and one-third of the shares have sales restrictions until January 1, 2022.On October 25, 2018, the Compensation Committee determined one of the operational goals for the third tranche of performance units had been satisfied, which resulted in 15,075 units being credited, subject to time based vesting
- 3. On October 25, 2018, the reporting person was granted a target number of 9,600 performance units and can earn up to a maximum of 48,000 performance units subject to satisfaction of share price targets ranging from \$140 to \$172 over the performance periods from October 25, 2018 to December 31, 2023, as determined by the Compensation Committee of the Company. All performance units are subject to time based vesting and require service through January 1, 2024 or an earlier change in control. Once vested, performance units convert into shares of common stock on a 1-for-1 basis and one-third of the resulting shares have no sales restrictions and are sellable on January 1, 2024, one-third of the shares have sales restrictions until January 1, 2025 and one-third of the shares have sales restrictions until January 1, 2025. 1, 2026.

By: Saria Tseng For: Deming Xiao

10/29/2018

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- \* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of ir	nformation contained in this form	n are not required to respond	unless the form displays a curre	ntly valid OMB Number.