FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
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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* Sciammas Maurice					2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									eck al	tionship of Reporting Pe all applicable) Director Officer (give title		ng Per	10% Ow	/ner
(Last)		3. Date of Earliest Transaction (Month/Day/Year) 02/06/2017									X t	below)		and	Other (s below) Marketing				
(Street) SAN JOS (City)	E CA	- 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									e) <mark>X</mark> F	<i>'</i>						
		Tabl	e I - Non-Deri	vative	Sec	curit	ies A	cqı	uired	l, Dis	sposed of	, or Be	neficial	ly O	wned				
1. Title of S	2. Transaction Date (Month/Day/	Year) i	Execu f any		ned n Date, Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3,			5) S B	5. Amount of Securities Beneficially Owned		Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership		
						Co	ode	v	Amount	(A) or (D)	Price	R	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		Instr. 4)		
Common Stock			02/06/20	17			5	S ⁽¹⁾		4,722 D \$8		\$88.25	8.2535		336,149		D		
Common Stock			02/07/20	17					A		68,604(2)	68,604 ⁽²⁾ A		50.0 404		4,753		D	
Common	Stock		02/07/201	7(3)				N	M ⁽³⁾		4,876(3)	A	\$0.0	.0 409,629 D		D			
Common	Stock			2,000 I				I 1	οy Family Frust										
			Table II - Der (e.g								oosed of, o			wned	d				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Trans Code 8)		n of r. De Se Ac (A Di of	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Expira (Mont	ation I		7. Title Amount Securiti Underly Derivati Security and 4)	of es ring	of Deri Seci	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e s ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership
				Code	v	(A)	(D)		Date Exerci	isable	Expiration Date	Title	Amoun or Number of Shares	nber					
Performance Shares	(3)	02/07/2017 ⁽³⁾		M ⁽³⁾			4,876		(3	(3)		Common	4,876	\$0.0		56,17	4	D	

Explanation of Responses:

- 1. The reported sales were to cover taxes upon the vesting of restricted stock units, as required by the Company's equity incentive plans.
- 2. On February 3, 2015, the reporting person was granted a target of 24,213 shares of restricted stock units subject to satisfaction of pre-determined, performance-based vesting criteria. On February 7, 2017, the Company's Board of Directors determined that those performance criteria for the restricted stock units had been satisfied, which resulted in 44,391 additional shares being achieved and granted to the reporting person. Of the restricted stock units that were awarded, 34,302 will vest immediately and 34,302 will vest quarterly in the next two years.
- 3. On December 31, 2015, the reporting person was granted a target of 75,678 shares of restricted stock units in four tranches subject to satisfaction of share price targets over the next four years. The vesting of restricted stock units in the second, third and fourth tranches is also subject to the satisfaction of certain operational goals, as determined by the Compensation Committee of the Company. All restricted stock units are subject to time based vesting. Once vested, one-third of 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 February 7, 2017, the Compensation Committee of the Company determined that one of the five share price targets for the first tranche of restricted stock units had been satisfied, which resulted in 4,876 shares being granted, subject to time based vesting described above.

By: Saria Tseng For: Maurice **Sciammas**

02/08/2017

** Signature of Reporting Person

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.

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