FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
hours per response:	0.5								

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*     Sciammas Maurice				MO	2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [ MPWR ]									eck all appointed	olicable)		Owner (specify		
(Last) 6409 GU	(Fir	st) (N MINES ROAD	Middle)		3. Dat 04/1			t Trans	saction (N	lonth	/Day/Year)				belo	w)	belo es and Marke	w)	
(Street) SAN JOSE CA 95120					4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable ne)  X Form filed by One Reporting Person Form filed by More than One Reporting			erson	
(City)	(Sta	ate) (Z	Zip)													Person			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
Date			Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired ( Disposed Of (D) (Instr. 3 and 5)				5. Amo Securit Benefic Owned	ies ially	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount	(A)	or l	Price			(Instr. 4)	(Instr. 4)		
Common	Stock			04/17/2	012				S <sup>(1)</sup>		1,660		D	\$20	13	3,211	D		
Common	Stock														80	),004	I	by Family Trust <sup>(2)</sup>	
Common Stock														18	3,371	I	byC Sciammas 04 TRST <sup>(3)</sup>		
Common Stock										18	3,371	I	byM Sciammas 04 Trst <sup>(4)</sup>						
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
Derivative Conversion Date Execution Date, Security or Exercise (Month/Day/Year) if any					Transaction of Code (Instr. Derivative			6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		str.	B. Price of Derivative Security Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4)	Beneficial Ownership		
		Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or Num of Shar	ber								

## Explanation of Responses:

- 1. In accordance with the reporting person's 10b5-1 trading plan.
- 2. Shares held by Sciammas Family Living Trust, Maurice Sciammas and Christina Sciammas, Trustees
- 3. Shares held by Christina Sciammas 2004 Trust, Christina Sciammas and Maurice Sciammas, Trustees
- 4. Shares held by Maurice Sciammas 2004 Trust, Maurice Sciammas and Christina Sciammas, Trustees

By: Saria Tseng For: Maurice Sciammas 04/18/2012

\*\* Signature of Reporting Person D

Date

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

- $^{\star}$  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 information contained in this form are not required to respond unless the form displays a currently valid OMB Number.