## FORM 4

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

Washington, D.C. 20549

OMB APPROVAL								
OMB Number:	3235-0287							
Omb Hambon	0200 020.							
Estimated average burden								
Latimated average build	CII							
hours per response:	0.5							
nours 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						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [ MPWR ]									ck all app Direct	ationship of Reporti k all applicable) Director Officer (give title		10% (			
(Last) (First) (Middle) 6409 GUADALUPE MINES ROAD				3. Date of Earliest Transaction (Month/Day/Year) 02/10/2012									belo	w)	below es and Marketi						
(Street) SAN JOS (City)			5120 Zip)		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person Form filed by More than One Reporting Person					
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																					
Date			2. Transacti Date (Month/Day	/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (AD Disposed Of (D) (Instr. 3 and 5)				5. Amo Securit Benefic Owned	ties cially	6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership				
									Code	v	Amount	(A) (D)	Pri Pri	ce	Following Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(Instr. 4)		
Common	Stock			02/10/20	012				S <sup>(1)</sup>		727	D	\$1	6.42	10	9,205	D				
Common	Stock														80	),004	I		by Family Trust <sup>(2)</sup>		
Common Stock														18,371		I		byC Sciammas 04 TRST <sup>(3)</sup>			
Common Stock														18,371		I		byM Sciammas 04 Trst <sup>(4)</sup>			
		Та	ble I	l - Derivat (e.g., pı				•		•	sed of, o			•	Owned						
1. Title of 2. 3. Transaction 3A. Deemed Execution Date,			4. Transa Code (	ansaction of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		mber ative rities ired rosed		Exerc	sable and 7. Title and te Amount of		8. of Do Se (II	Price ferivative ecurity nstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Owne Form: Direct or Inc (I) (In: 4)	(D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)					
				Code	v	(A)	(D)	Date Exercisa		Expiration Date	Amou or Numb of Title Share		er								

## Explanation of Responses:

- 1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.
- 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: Meera Rao For: Maurice 02/13/2012 <u>Sciammas</u>

\*\* Signature of Reporting Person

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.