FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL							
OMB Number:	3235-0287						
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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

1. Name and Address of Reporting Person* <u>Ueunten Paul</u>							2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR]									plicable) ctor		Issuer Owner (specify
(Last)	(Fir	,		3. Date of Earliest Transaction (Month/Day/Year) 02/15/2012									belo	•	below n Engineerin)		
(Street) SAN JOS						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Ind Line)	Form	n filed by One n filed by More	Joint/Group Filing (Check Applicabl iled by One Reporting Person iled by More than One Reporting n	
(City)	(St		ip)	Non Davin				: A		- D:		f a D			0	- d		
Table I - Non-De 1. Title of Security (Instr. 3) 2. Transa Date (Month/D					n (ear)	2A. Deemed Execution Date,		3. Transa Code (I 8)	ction	4. Securitie Disposed C 5)	red (A	or 5. 7 4 and See Be		Amount of curities neficially med	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Pric	Following Reported Transaction(s (Instr. 3 and 4		orted saction(s)	(Instr. 4)	(Instr. 4)
Common	Stock			02/15/20	12				J	V	1,415(1)	A	\$10	0.6505	1	45,623	D	
Common	Stock			08/15/20	12				J	V	412(1)	A	\$14	4.9685	1	31,009	D	
Common	Stock														1	53,556	I	Ueunten Trust I
Common	Stock														1	13,900	I	Ueunten Trust II
Common Stock														26,000		I	Ueunten Trust III	
Common Stock															:	26,000	Ι	Ueunten Trust IV
		Та	ble	II - Derivat							osed of, convertib				wnec	I		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	n Date e (Month/Day/Year)	Exed if ar	Deemed cution Date,	4. Trans	4. Transaction Code (Instr.		Numbe erivative curities equired or sposed (D) estr. 3, 4	f 6. Date Exer Expiration (Month/Day		rcisable and Date	7. Title and Amount of Securities Underlying Derivative Security (Inst 3 and 4)		8. I of De Sec	rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A) (D)	Date Exerc	isable	Expiration Date	Title	Amou or Numb of Share	er				

Explanation of Responses:

1. Acquired through the Company's qualified ESPP program.

By: Saria Tseng For: Paul <u>Ueunten</u>

08/17/2012

** Signature of Reporting Person

Date

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

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.

 $^{^{\}star}$ 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).