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

1. Name and Address of Reporting Person* Ueunten Paul (Last) (First) (Middle) 6409 GUADALUPE MINES ROAD						2. Issuer Name and Ticker or Trading Symbol MONOLITHIC POWER SYSTEMS INC [MPWR] 3. Date of Earliest Transaction (Month/Day/Year) 02/02/2012 4. If Amendment, Date of Original Filed (Month/Day/Year)								(Che	Relationship of Repo Check all applicable) Director X Officer (give ti below) Sr. V.P. De		10% (Other below n Engineerin	Owner (specify) g
(Street) SAN JOS (City)		CA 95120 (State) (Zip)														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																		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execution Date,			3. Transac Code (I 8)		4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)				Secu Bene Owne	ficially d	6. Ownership Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) o (D)	r Pri	ce			(Instr. 4)	(Instr. 4)
Common	Stock			02/02/20	12				S ⁽¹⁾		1,088	D	\$1	6.740	1 1	21,036	D	
Common	Stock														1	53,556	I	Ueunten Trust I
Common	Stock														1	13,900	I	Ueunten Trust II
Common Stock															2	26,000	Ι	Ueunten Trust III
Common Stock														2	26,000	Ι	Ueunten Trust IV	
		Та	ble	II - Derivati (e.g., p.							osed of, convertib				Owned			
1. Title of 2. 3. Transaction Date Conversion Date (Month/Day/Year) if any			4. Transa Code 8)	action	5. N of Deri Sec Acq (A) Disp	umber ivative urities uired or oosed D) tr. 3, 4	6. Dat Expira (Mont	e Exer	cisable and Date	7. Title and Amount of Securities Underlying		8. of D So (II	Price	9. Number of derivative Securities Beneficially Owned Following Reported Transactions (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

1. Shares sold to pay tax obligations resulting from the vesting of restricted stock units.

By: Saria Tseng For: Paul <u>Ueunten</u> <u>02/02/2012</u>

** 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).