

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the misspelling of Assignee name to read Pixtronix, Inc. and correct street address previously recorded on Reel 017177 Frame 0209. Assignor(s) hereby confirms the correction of Assignee name to read Pixtronix, Inc. and correction of street address.										
CONVEYING PARTY DATA											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Nesbitt W. Hagood</td> <td>12/22/2005</td> </tr> <tr> <td>Jasper Lodewyk Steyn</td> <td>12/22/2005</td> </tr> <tr> <td>Roger Barton</td> <td>12/22/2005</td> </tr> <tr> <td>Richard S. Payne</td> <td>12/22/2005</td> </tr> </tbody> </table>		Name	Execution Date	Nesbitt W. Hagood	12/22/2005	Jasper Lodewyk Steyn	12/22/2005	Roger Barton	12/22/2005	Richard S. Payne	12/22/2005
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Roger Barton	12/22/2005										
Richard S. Payne	12/22/2005										
RECEIVING PARTY DATA											
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:20%;">Name:</td> <td>Pixtronix, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>100 Burt Road, Suite 123</td> </tr> <tr> <td>City:</td> <td>Andover</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>01810</td> </tr> </table>		Name:	Pixtronix, Inc.	Street Address:	100 Burt Road, Suite 123	City:	Andover	State/Country:	MASSACHUSETTS	Postal Code:	01810
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PROPERTY NUMBERS Total: 1											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11251452</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11251452						
Property Type	Number										
Application Number:	11251452										
CORRESPONDENCE DATA											
<p>Fax Number: (617)235-9492 Email: joanne.ryan@ropesgray.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: ROPES & GRAY LLP Address Line 1: 800 Boylston Street, Prudential Tower Address Line 2: IPRM Docketing Floor 43 Address Line 4: Boston, MASSACHUSETTS 02199</p>											
ATTORNEY DOCKET NUMBER:	268502-P01-004										

CH \$40.00 11251452

501731305

**PATENT
 REEL: 027259 FRAME: 0334**

NAME OF SUBMITTER:

Joanne Ryan

Total Attachments: 22

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Form PTO-1595 (Rev. 07/05)
OMB No. 0651-0027 (exp. 6/30/2008)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):
Nesbitt W. Hagood (12/22/2005), Jasper Lodewyk Steyn (12/22/2005), Roger Barton (12/22/2005), and
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: Pixtronix, Incorporated
Internal Address: _____
Street Address: _____
100 Burr Road, Suite 123
City: Andover
State: Massachusetts
Country: United States of America Zip: 01810
Additional name(s) & address(es) attached: Yes No

3. Nature of conveyance/Execution Date(s):
Execution Date(s): In parentheses after inventor name _____
 Assignment Merger Change of Name
 Security Agreement Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s):
A. Patent Application No.(s)
11/251,452
Additional numbers attached? Yes No

This document is being filed together with a new application.
B. Patent No.(s)

 Yes No

5. Name and address to whom correspondence concerning document should be mailed:
Name: Edward J. Kelly
ROPES & GRAY LLP
Internal Address: Atty. Dkt.: 268502-P01-004
Street Address: One International Place

City: Boston
State: MA Zip: 02110-2624
Phone Number: (617) 951-7532
Fax Number: (617) 951-7050
Email Address: ekelly@ropesgray.com

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
 Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information
a. Credit Card Last 4 Numbers _____
Expiration Date _____
b. Deposit Account Number 18-1945
Authorized User Name Edward J. Kelly

9. Signature: [Signature] January 10, 2006
Signature Date
Edward A. Gordon - 54,130
Name of Person Signing
Total number of pages including cover sheet, attachments, and documents: 5

I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office, facsimile no. (571) 273-0140, on the date shown below.
Dated: 1/10/2006 Signature: [Signature] (Joanne Ryan)

BPD4776.1

GH \$40.00 181945 1 251452

Form PTO-1595	RECORDATION FORM COVER SHEET (continued)
Additional Conveying Party(ies)/Execution Date(s) (1. Continued): Richard S. Payne (12/22/2005)	
Additional Assignees (2. Continued):	
Assignee Name: _____ Internal Address: _____ Street Address: _____ City: _____ State: _____ Country: _____ Zip: _____	
Assignee Name: _____ Internal Address: _____ Street Address: _____ City: _____ State: _____ Country: _____ Zip: _____	
Assignee Name: _____ Internal Address: _____ Street Address: _____ City: _____ State: _____ Country: _____ Zip: _____	
Additional Applications and/or Patents (4. Continued):	
Additional Patent Application Numbers 4A. Continued:	Additional Patent Numbers 4B. Continued:
Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	

ASSIGNMENT

WHEREAS, we, Nesbitt W. Hagood, Jasper Lodewyk Steyn, Roger Barton, and Richard S. Payne, have invented a certain improvement in **METHODS AND APPARATUS FOR BI-STABLE ACTUATION OF DISPLAYS** described in an application for Letters Patent of the United States, the specification of which:

- is being executed on even date herewith; and is about to be filed in the United States Patent Office;
- was filed on October 14, 2005 as Application No. 11/251,452.
- was patented under U.S. Patent No. _____ on _____

Inc.

WHEREAS, Pixtronix, ~~Incorporated~~ (hereinafter "ASSIGNEE"), a corporation having principal offices at ~~73 Smith Street, Woburn, Massachusetts 02482~~ desires to acquire an interest therein in accordance with agreements duly entered into with us;

ms
Initial

11-14-11
Date

100 Burt Road, Suite 123, Andover, Massachusetts 01810

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon, and any reissue, continuation, divisional and foreign counterparts thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, all choses in action pertaining to the applications or Letters Patent including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the applications or Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature: *Nesbitt W. Hagood*
Nesbitt W. Hagood

State of)
County of)

Then personally appeared before me the above-named Nesbitt W. Hagood and acknowledged that he executed the foregoing instrument as his free act and deed this 22nd day of December, 2005.

(SEAL)

[Signature]
Notary Public

My commission expires 9/11/09

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature: _____

Jasper Lodewyk Steyn

State of)
County of)

Then personally appeared before me the above-named Jasper Lodewyk Steyn and acknowledged that he executed the foregoing instrument as his free act and deed this 22nd day of December, 2005.

(SEAL)

Notary Public

My commission expires 9/11/09

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature: Roger Barton
Roger Barton

State of)
County of)

Then personally appeared before me the above-named Roger Barton and acknowledged that he executed the foregoing instrument as his free act and deed this 22nd day of December, 2005.

(SEAL)

[Signature]
Notary Public

My commission expires 9/11/09

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature: *Richard S. Payne*
Richard S. Payne

State of)
County of)

Then personally appeared before me the above-named **Richard S. Payne** and acknowledged that he executed the foregoing instrument as his free act and deed this 22nd day of December, 2005.

(SEAL)

[Signature]
Notary Public

My commission expires 9/11/09

ASSIGNMENT

WHEREAS, we, Nesbitt W. Hagood, Jasper Lodewyk Steyn, Roger Barton, and Richard S. Payne, have invented a certain improvement in **METHODS AND APPARATUS FOR BI-STABLE ACTUATION OF DISPLAYS** described in an application for Letters Patent of the United States, the specification of which:

- is being executed on even date herewith; and is about to be filed in the United States Patent Office;
- was filed on October 14, 2005 as Application No. 11/251,452.
- was patented under U.S. Patent No _____ on _____

WHEREAS, ~~Pixtronix, Incorporated~~ ^{Inc.} (hereinafter "ASSIGNEE"), a corporation having principal offices at ~~73 Smith Street, Woburn, Massachusetts 02492~~ desires to acquire an interest therein in accordance with agreements duly entered into with us;

100 Burt Road, Suite 123, Andover, Massachusetts 01810

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon, and any reissue, continuation, divisional and foreign counterparts thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, all choses in action pertaining to the applications or Letters Patent including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the applications or Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

[Handwritten Signature]
 Initial
 10/14/05
 Date

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature: *Nesbitt W. Hagood*
Nesbitt W. Hagood

State of)
County of)

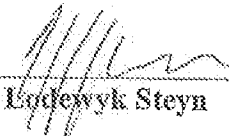
Then personally appeared before me the above-named Nesbitt W. Hagood and acknowledged that he executed the foregoing instrument as his free act and deed this 22nd day of December, 2005.

(SEAL)

[Signature]
Notary Public

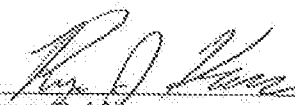
My commission expires 9/11/09

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature: 
Jasper Lodewyk Steyn

State of)
County of)

Then personally appeared before me the above-named Jasper Lodewyk Steyn and acknowledged that he executed the foregoing instrument as his free act and deed this 22nd day of December, 2005.

(SEAL) 
Notary Public

My commission expires 9/11/09

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature: Rog Barton
Roger Barton

State of)
County of)

Then personally appeared before me the above-named Roger Barton and acknowledged that he executed the foregoing instrument as his free act and deed this 22nd day of December, 2005.

(SEAL)

[Signature]
Notary Public

My commission expires 9/11/09

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature: *Richard S. Payne*
Richard S. Payne

State of)
County of)

Then personally appeared before me the above-named Richard S. Payne and acknowledged that he executed the foregoing instrument as his free act and deed this 22nd day of December, 2005.

(SEAL)

[Signature]
Notary Public

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- [] is being executed on even date herewith; and is about to be filed in the United States Patent Office;
- [X] was filed on October 14, 2005 as Application No. 11/251,452.
- [] was patented under U.S. Patent No. _____ on _____.

Inc.

WHEREAS, Pirtronix, ~~Incorporated~~ (hereinafter "ASSIGNEE"), a corporation having principal offices at ~~73 Smith Street, Woburn, Massachusetts 02468~~ desires to acquire an interest therein in accordance with agreements duly entered into with us;

RSB
Initial

11/15/11
Date

100 Burt Road, Suite 123, Andover, Massachusetts 01810

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon, and any reissue, continuation, divisional and foreign counterparts thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, all choses in action pertaining to the applications or Letters Patent including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the applications or Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature: *Nesbitt W. Hagood*
Nesbitt W. Hagood

State of)
County of)

Then personally appeared before me the above-named Nesbitt W. Hagood and acknowledged that he executed the foregoing instrument as his free act and deed this 22nd day of December, 2005.

(SEAL)

[Signature]
Notary Public

My commission expires 9/11/09

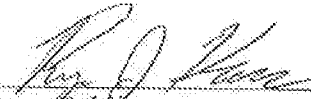
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Inventor's Signature: 
Jasper Lodewyk Steyn

State of)
County of)

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(SEAL)


Notary Public

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Inventor's Signature: Roger Barton
Roger Barton

State of)
County of)

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(SEAL)

[Signature]
Notary Public

My commission expires 9/11/09

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature: *Richard S. Payne*
Richard S. Payne

State of)
County of)

Then personally appeared before me the above-named Richard S. Payne and acknowledged that he executed the foregoing instrument as his free act and deed this 22nd day of December, 2005.

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WHEREAS, **Pixtronix, Inc.**, ~~Incorporated~~ (hereinafter "ASSIGNEE"), a corporation having principal offices at ~~73 Smith Street, Woburn, Massachusetts 02482~~ desires to acquire an interest therein in accordance with agreements duly entered into with us;

[Signature]
Initial
11/19/05
Date

100 Burt Road, Suite 123, Andover, Massachusetts 01810

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon, and any reissue, continuation, divisional and foreign counterparts thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, all choses in action pertaining to the applications or Letters Patent including the right to sue for and collect damages and other recoveries for past infringement thereof, all rights to initiate proceedings before government and administrative bodies, and all files, records and other materials arising from the prosecution, exploitation, or defense of rights and registrations pertaining to the applications or Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein.

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IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature: *Nesbitt W. Hagood*
Nesbitt W. Hagood

State of)
County of)

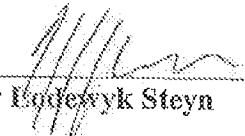
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(SEAL)

[Signature]
Notary Public

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Inventor's Signature: 
Jasper Lodewyk Steyn

State of)
County of)

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(SEAL)


Notary Public

My commission expires 9/11/09

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Inventor's Signature: *Roger Barton*
Roger Barton

State of)
County of)

Then personally appeared before me the above-named Roger Barton and acknowledged that he executed the foregoing instrument as his free act and deed this 22nd day of December, 2005.

(SEAL)

[Signature]
Notary Public

My commission expires 9/11/09

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seal(s) the date set forth below.

Inventor's Signature: *Richard S. Payne*
Richard S. Payne

State of)
County of)

Then personally appeared before me the above-named **Richard S. Payne** and acknowledged that he executed the foregoing instrument as his free act and deed this 22nd day of December, 2005.

(SEAL)

[Signature]
Notary Public

My commission expires 9/11/09