

## Ruby master - Bug #2224

### lib/delegate: operator delegation

10/17/2009 01:15 PM - marcandre (Marc-Andre Lafortune)

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b> marcandre (Marc-Andre Lafortune)	
<b>Target version:</b> 1.9.2	
<b>ruby -v:</b> ruby 1.9.2dev (2009-10-17 trunk 25379) [x86_64-darwin10.0.0]	<b>Backport:</b>
<b>Description</b> =begin The operators ==, =~, !~ are forwarded by Delegate. I presume the operators != and ~, new in 1.9, have simply been forgotten?  As for eql? and hash, this is probably intentional. I am still curious as to why, since this can yield surprising results (at least to me):  a = "foo" a1 = SimpleDelegator.new(a) a2 = a1.dup h = {} h[a] = :bar h[a1] = :bar h[a2] = :bar h # ==> {"foo"=>:bar, "foo"=>:bar, "foo"=>:bar} =end	

### History

#### #1 - 04/28/2010 01:19 AM - mame (Yusuke Endoh)

- Assignee set to matz (Yukihiko Matsumoto)

- Target version set to 1.9.2

```
=begin  
Hi,
```

The operators ==, =~, !~ are forwarded by Delegate. I presume the operators != and ~, new in 1.9, have simply been forgotten?

Agreed. Yogui, do you permit to fix this?

As for eql? and hash, this is probably intentional. I am still curious as to why, since this can yield surprising results (at least to me):

Me too. Matz, is this really intentional?

I wrote a patch, but I cannot anticipate the impact.  
At least, make check and make test-rubyspec seem to pass.

```
diff --git a/lib/delegate.rb b/lib/delegate.rb  
index f366091..e35d3b2 100644  
--- a/lib/delegate.rb  
+++ b/lib/delegate.rb  
@@ -117,7 +117,7 @@  
class Delegator < BasicObject  
  kernel = ::Kernel.dup  
  kernel.class_eval do
```

- [:to\_s, :inspect, :=~, :!~, :==, :<=>].each do |m|
- [:to\_s, :inspect, :=~, :!~, :==, :<=>, :eql?, :hash].each do |m|  
 undef\_method m  
 end  
end  
@@ -168,6 +168,15 @@ class Delegator < BasicObject

```
self.getobj == obj
end

• def !=(obj)

• return true if lobj.equal?(self)

• self.getobj != obj

• end
+

• def !

• !self.getobj

• end
+
#
```

**This method must be overridden by subclasses and should return the object method calls are being delegated to.**

```
--
Yusuke Endoh mame@tsg.ne.jp
=end
```

**#2 - 05/13/2010 04:10 AM - marcandre (Marc-Andre Lafortune)**

- Assignee changed from matz (Yukihiro Matsumoto) to marcandre (Marc-Andre Lafortune)

```
=begin
```

```
=end
```

**#3 - 06/13/2010 04:27 AM - marcandre (Marc-Andre Lafortune)**

- Status changed from Open to Closed

- % Done changed from 0 to 100

```
=begin
```

This issue was solved with changeset r28309.  
Marc-Andre, thank you for reporting this issue.  
Your contribution to Ruby is greatly appreciated.  
May Ruby be with you.

```
=end
```