## **Creating a PBS Beam**

After a calculation grid is defined, a pbs beam can be added to the plan. From within the *beam creation* task, the geometry, target, beam devices, and spot optimization can be defined.

- 1. From within the plan overview select the Beams block
- 2. Select the treatment room from the drop down then click the blue *OK* button

Beams

rom the drop down then tlick the blue OK bu				
▼ Beams				
Treatment Room:	Gantry 2			
	Gantry 2 Small Spots			
	Gantry MEV			
	OK Cancel			
Spot Placement Pa	rameters using user values			

3. Next select the *Spot Placement Parameters*. You may either choose to go with the default parameters or enter your own parameters

Spot Placement F	Parameter	rs:		
Lateral Margin:	15	mm		
Distal Margin:	10	mm		
Spot Spacing:	1	Sigma	•	
Layer Spacing:	0.7	Distal W80	•	
			ОК	Cancel

4. Once your Spot Placement Parameters are set the Create New PBS Beam button will become active



- 5. After you select the Create New PBS Beam you will be able to set the beam geometry parameters:
  - 1. Select the intended target
  - 2. Select the Isocenter
  - 3. Set the gantry angle
  - 4. Set the couch angle
  - 5. If desired, add an aperture
  - 6. Refer to Creating a New Aperture for detailed instruction
- 6. Select the snout size
- 7. If desired, select the range shifter to use based on the ones available for the selected snout
- 8. Set the air gap distance

Create PBS Beam				
<ul> <li>General</li> </ul>				
Color:				
Label:				
	× automatically generate label			
Target	<b>•</b>			
Description:				
<ul> <li>Approach</li> </ul>	h none			
► Snout	none			
<ul> <li>Aperture</li> </ul>	none			
<ul> <li>Shifter</li> </ul>	none			
► Air Gap	30 mm			
Spot Place	cement using plan settings			
Proton D	RR Options			

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